Eryx: Software Development with AI-Driven Automation

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Eryx is an advanced software development farmwork designed to streamline and automate the creation of .NET solutions, now extending support to Angular, with plans to include **Java**, **ReactJS**, and **Flutter** mobile development in the near future. By integrating cutting-edge AI models, Eryx automates key tasks in software development, significantly improving the speed, accuracy, and efficiency of the development process. Whether accessed through the **Visual Studio extension** or the **Eryx web platform**, users can manage their projects seamlessly across both platforms with the same account.
Eryx's standout feature lies in its ability to consider the **entire solution source files** when making any changes or adding new features. It ensures that modifications are consistent with the existing project structure and follows the **same code structure and development practices** used by the team. This guarantees that the changes are in line with the original code, maintaining a high level of consistency and coherence across the project. Unlike traditional tools, Eryx offers a holistic approach, automatically adapting the entire solution based on the required changes, preventing code fragmentation and inconsistencies.

Furthermore, Eryx goes beyond just code generation by **automating the entire Software Development Life Cycle (SDLC)**, starting from **requirement analysis** all the way through to **deployment**. This automation ensures that the process is not only faster but also more reliable, with AI-driven insights improving the quality of each phase, from project initiation to production.

The tool empowers developers by automating repetitive tasks, such as CRUD operations, project setup, and code structure generation, while still allowing for complete flexibility and control over the project. With Eryx, developers can focus on writing business logic and innovation, while the tool takes care of the mechanical aspects of software creation.

Eryx is designed to reduce development time, enhance productivity, and produce more reliable, maintainable software. It is transforming how software solutions are built, offering a smarter, faster, and more efficient development lifecycle.

Introduction

In today's rapidly evolving software development landscape, developers face increasing pressure to deliver complex, high-quality applications quickly and reliably. The traditional approach to software development involves numerous repetitive and time-consuming tasks, often reducing developers' ability to focus on creativity, innovation, and high-level problem-solving.

The industry is gradually shifting towards more intuitive, dynamic ways of coding—commonly referred to as **"vibe coding"**—where development feels fluid, natural, and closely aligned with the developer's thought process. **Eryx** embodies this concept by offering a sophisticated, AI-powered platform designed specifically **for developers**. Unlike low-code or no-code solutions targeting non-developers, Eryx enhances the productivity and efficiency of professional software engineers by automating repetitive coding tasks and streamlining the overall development workflow.

Through advanced AI integration and seamless compatibility with existing development environments like **Visual Studio**, Eryx significantly reduces manual workload in software development. Tasks such as project initialization, CRUD generation, and routine coding are automated, allowing developers to channel their expertise and creativity into crafting innovative business logic and functionality.

Moreover, Eryx uniquely understands the existing codebase, considering the **entire solution's source files** when introducing new features or changes. It ensures that modifications seamlessly integrate into the project, respecting the original coding style, architecture, and logic established by the development team. This holistic, code-aware approach enables a consistent and harmonious software architecture throughout the project lifecycle.

Currently optimized for **.NET** and **Angular**, Eryx is rapidly expanding its capabilities to include additional technologies such as **Java**, **ReactJS**, and **Flutter** mobile development. By continuously evolving its technology stack, Eryx positions itself as an essential tool for developers seeking efficiency, consistency, and agility across diverse software projects.

This white paper explores how Eryx is revolutionizing the developer experience by automating the **Software Development Life Cycle (SDLC)**—from detailed **requirement analysis** to streamlined **deployment**—ultimately enabling developers to focus more on what they love: building high-quality, impactful software solutions.

Eryx Overview

Eryx is a powerful AI-driven platform designed to automate and streamline the .NET software development process. It allows developers to rapidly generate entire application structures, handle CRUD operations, and automate routine coding tasks, all while ensuring that the software remains consistent, scalable, and maintainable.

Eryx integrates seamlessly with **Visual Studio**, offering a familiar environment for developers. Additionally, it provides a **web platform** for users who prefer a cloud-based experience. By utilizing a single account, users can switch between the **Visual Studio extension** and **web interface**, enabling a flexible and adaptable workflow.

Key Features of Eryx

AI-Powered Code Generation

Eryx uses AI models to automatically generate .NET solution structures, saving developers from the time-consuming task of manually setting up projects. It generates the necessary files, components, and methods in accordance with industry best practices, allowing developers to focus on business logic and innovation.

Automatic CRUD Operations

Eryx automates the creation of CRUD (Create, Read, Update, Delete) operations for database entities, reducing the need for repetitive coding and enabling faster application development. These operations are created in line with the existing project structure and coding conventions.

Holistic Code Integration

Unlike traditional code-generation tools, Eryx takes into account the entire solution's source files when making updates or adding new features. This ensures that changes fit seamlessly into the project without disrupting the overall structure, code style, or architecture, guaranteeing consistency and maintainability.

Support for Multiple Frameworks and Languages

Currently, Eryx is optimized for .NET and Angular development. However, future updates will extend support to Java, ReactJS, and Flutter mobile, allowing developers to work with a wider range of technologies on the same platform.

SDLC Automation

Eryx automates the Software Development Life Cycle (SDLC), starting from requirement analysis and continuing through to deployment. This ensures that each phase of the development

process is faster, more efficient, and more reliable, with AI models providing insights that improve the quality of the software at each stage.

Seamless Platform Integration

Whether using the Visual Studio extension or the web platform, Eryx allows developers to manage projects from either environment with the same account. This flexibility ensures that developers can work in the platform that best suits their preferences or project requirements.

Comprehensive Change Implementation

Eryx is not limited to just generating new code; it is also designed to implement **changes to existing solutions**. Whether the task is as simple as **renaming properties, variables, or UI elements**, or as complex as **implementing multi-tenancy support** or **adding an entirely new module** to the current solution, Eryx can handle it. The tool analyzes the entire project and makes these changes in a way that is consistent with the existing codebase, preserving the integrity of the architecture and ensuring minimal disruption.

How Eryx Supports Developers

Eryx is not a tool aimed at non-developers or those without technical expertise. It is **built for developers** who are looking for a more efficient way to work, reduce manual errors, and deliver high-quality software in less time. Eryx helps developers by providing a seamless, intelligent assistant that automates the mechanical and repetitive aspects of the development process, allowing them to focus on creativity and high-level development tasks.

Problem Statement

In today's software development landscape, developers face numerous challenges. One of the most significant problems is the **dependency on external AI tools**, as well as the **complexity of creating a new project or solution**. Here's a deeper look into these issues:

1-The Dependency on External AI Tools

Many developers use external AI-powered tools to accelerate their coding tasks, generate code, and follow industry best practices. However, this requires developers to constantly switch between different tools, disrupting their workflow and leading to inefficiencies. Additionally, these external tools often lack access to the project's full source code, making it difficult to ensure generated code integrates seamlessly with the existing codebase. This leads to inconsistencies, fragmented code, and potential technical debt.

Developers must manage different environments and deal with potential incompatibilities between external tools and their existing development setup, increasing complexity and confusion. This, in turn, slows down the development process.

Eryx addresses this problem by **integrating AI directly within the developer's workflow** and ensuring that AI has **full access to the solution's entire source code**. This means that instead of relying on multiple external tools, developers can manage the entire project—from code generation to complex changes—directly within **Visual Studio**. Eryx ensures that any changes, whether they involve **simple tasks like renaming variables** or **complex modifications like adding multi-tenancy support**, are consistent with the existing code without requiring developers to switch tools.

2-Creating a New Project or Solution

Starting a new software project traditionally involves significant overhead. Developers must manually gather requirements, design the data models, ensure data model relations are accurate, generate CRUD operations, and handle both back-end and front-end code. This process can be time-consuming, error-prone, and inconsistent, as developers often face challenges in aligning the project with the original requirements, creating accurate data models, and ensuring smooth integration between front-end and back-end components.

Eryx solves this by automating the entire process. It begins by performing a **requirement analysis**, gathering the necessary input from the user. Eryx then generates a **requirements document**, allowing the developer to review and make changes. Following this, **Eryx designs the data models**, defining relationships between entities and allowing the developer to review and modify the design as needed. Once the data model is finalized, Eryx generates the **CRUD operation layers**, including APIs, services, repositories, and data models, along with the **front-end layer**. This comprehensive automation allows developers to kickstart new projects without the hassle of manual setup, ensuring consistency and reducing errors from the very beginning of the project.

How Eryx Works

Eryx is designed to integrate seamlessly into a developer's existing workflow, providing powerful automation capabilities without disrupting the development process. The core of Eryx's functionality lies in its architecture, which combines AI-driven automation with intelligent decision-making to streamline every phase of the software development life cycle (SDLC).

System Architecture

The **Eryx system architecture** consists of several interconnected components, each designed to optimize a specific part of the software development process:

AI Model Integration

The AI engine is the heart of Eryx. It uses advanced AI models to analyze the existing code, understand the project structure, and generate code that integrates perfectly with the existing solution. The AI has access to **all the source code files** of the project, ensuring that any generated or modified code is consistent and cohesive with the rest of the codebase.

Eryx leverages **OpenAI** and other AI models for **code generation**, **refactoring**, and **feature enhancements**. These models help Eryx make intelligent decisions about how and where to apply changes within the existing solution, whether it's modifying data models, implementing CRUD operations, or adding new modules.

Visual Studio Extension and Web Platform

Eryx can be accessed through **Visual Studio** (as an extension) or through a **web platform**, providing flexibility in how developers choose to interact with the tool. Both platforms have the same core functionality, ensuring that developers can work in their preferred environment. The Visual Studio extension enables seamless integration with the development environment, while the web platform allows developers to access their projects remotely from anywhere.

Data Model Generation and CRUD Automation

Eryx automatically generates **data models**, ensuring that entities and their relationships are accurately defined. Once the data models are in place, Eryx generates the necessary **CRUD operations** (Create, Read, Update, Delete) for interacting with the database, including the **API layer**, **service layer**, and **repository pattern**.

Workflow

The workflow within Eryx is designed to be intuitive and easy to follow. It automates several critical tasks while providing developers with the flexibility to review and make adjustments as needed. Here are the typical steps involved in using Eryx for project creation:

Requirement Gathering and Analysis

Eryx starts by gathering requirements from the user, either through a guided interface or by importing an existing requirements document. This step ensures that Eryx understands the key functionality and features the project should have.

Analysis Document Generation

Once the requirements are gathered, Eryx generates an analysis document. This document outlines the architecture, data models, and functional requirements, allowing developers to review and make any necessary changes before proceeding with the project setup.

Data Model Design

After finalizing the requirements, Eryx automatically designs the data models based on the gathered requirements. It establishes relationships between entities and ensures that the data structure aligns with the project's functional needs. Developers are given the ability to review, modify, or add to the design as needed.

CRUD Operation Layer Creation

Once the data models are set, Eryx automatically generates the CRUD operations for the project. This includes creating the API controllers, service classes, and repository patterns, ensuring that the database interactions are clean, efficient, and in line with best practices.

Front-End Layer Generation

Eryx also automates the creation of the front-end layer. It generates the necessary UI components based on the data models and CRUD operations. This ensures that the front-end and back-end are tightly integrated, and developers can focus on customizing the UI instead of building the basic components from scratch.

Deployment Automation

Eryx doesn't stop at code generation. It also supports deployment automation, ensuring that the final project can be deployed easily and reliably to either a cloud environment or on-premise infrastructure. Eryx automates the steps involved in deploying the application, ensuring a smooth transition from development to production.

AI Models and Automation

Eryx utilizes a combination of AI models to handle code generation, project structuring, and feature enhancements. The integration with **OpenAI** and other models allows for smart automation across various phases of the SDLC. Here are the key AI-driven capabilities within Eryx:

Code Generation

The AI models within Eryx generate high-quality code for essential project components, including CRUD operations, API controllers, services, and repositories. By analyzing the entire

project and considering the current code structure, the AI ensures that the generated code integrates smoothly with the existing solution, preserving consistency and maintainability.

Feature Enhancement

The AI can also suggest and implement **complex features**, such as adding **multi-tenancy** support, implementing **user authentication**, or integrating **third-party APIs**. These enhancements are made by analyzing the solution's source code and ensuring that the new features are compatible with the existing architecture.

Code Refactoring

Eryx's AI engine is capable of **refactoring existing code** to improve readability, performance, or scalability. Whether it’s optimizing queries, cleaning up unnecessary code, or improving data model structure, the AI makes intelligent decisions about how to enhance the existing codebase without introducing bugs or inconsistencies.

Project Customization and Review

Although Eryx handles the majority of code generation, it also provides developers with the ability to **review and customize** the generated code. After the AI performs its tasks, developers can ensure the code aligns with project-specific requirements, making any necessary adjustments before finalizing the project.

Benefits of Using Eryx

Eryx is not just a tool; it is a game-changer for software developers and development teams. By integrating advanced AI into the development workflow, Eryx delivers numerous benefits that streamline the process and improve overall productivity, quality, and consistency.

Accelerates Development Speed

Eryx automates repetitive tasks like CRUD generation, data model design, and project setup, enabling developers to focus on more critical aspects of the project. By speeding up these tasks, developers can create and iterate on software solutions much more quickly, significantly reducing time-to-market.

Seamless Integration with Existing Solutions

One of Eryx’s key strengths is its ability to work within **existing solutions**. Whether developers need to make minor adjustments like renaming variables or adding complex features like multi-tenancy support or entire new modules, Eryx ensures that all changes are implemented

seamlessly. Since it considers the **entire solution's source code** during any modification, consistency and integration are guaranteed.

AI-Driven Decision Making

The AI model within Eryx is designed to understand the project as a whole. It doesn't just generate random code snippets or perform one-off tasks. Instead, it makes **intelligent decisions** based on the full context of the solution, ensuring that any changes or new features align perfectly with the existing architecture and coding practices. This reduces errors and increases the overall quality of the code.

Increases Code Consistency

Eryx ensures that every change made to the solution adheres to the same **coding standards** and **best practices**. By accessing the full source code, the AI can generate code that is consistent with the developer's original work, leading to a clean, maintainable codebase. This consistency is especially important in large-scale projects where maintaining a uniform coding style is challenging.

Reduces Human Error

Manual coding tasks, particularly repetitive ones, are prone to errors. By automating tasks like CRUD creation, API design, and data model structuring, Eryx reduces the possibility of human errors that can occur when developers manually write code. This helps ensure that the code is reliable and works as expected.

Full Control and Flexibility

While Eryx automates many tasks, it doesn’t take away control from the developer. Developers can still review and modify all AI-generated code. Whether it's reviewing the **data model**, making adjustments to **CRUD operations**, or refining the **front-end layer**, Eryx allows for full **customization** and **flexibility**, ensuring that developers can tailor the solution to their specific needs.

End-to-End SDLC Automation

Eryx’s ability to automate the entire **Software Development Life Cycle (SDLC)**—from requirement analysis and documentation generation to data model design, CRUD operation creation, and deployment—ensures that the development process is efficient, standardized, and free from manual intervention. This comprehensive automation minimizes overhead and reduces project delays, leading to faster, more efficient delivery cycles.

Future-Proof Solution

As technologies evolve, Eryx continuously expands its capabilities to support additional frameworks and languages like **Java**, **ReactJS**, and **Flutter** mobile development. This future-proof approach ensures that Eryx remains relevant and adaptable to changing technologies, allowing developers to use it across multiple tech stacks without having to switch to different tools.

Cost-Efficiency

By automating many aspects of software development, Eryx significantly reduces the time and effort required to complete projects. This not only increases productivity but also reduces costs associated with development, testing, and maintenance. Teams can focus on the higher-value tasks while Eryx takes care of the repetitive, mechanical work.

Seamless User Experience

Eryx provides an intuitive experience for developers, whether they are using the **Visual Studio extension** or the **web platform**. The user interface is designed to be simple and easy to navigate, allowing developers to work in their preferred environment without the need for a steep learning curve.

Case Studies / Examples

Eryx has proven to be a powerful tool in a variety of real-world scenarios. Below are two use cases that demonstrate how developers and teams have leveraged Eryx to streamline their workflows, increase productivity, and enhance their applications.

Building a New Project: Employee Leave Request System

In this example, a team of developers used **Eryx** to build a new **Employee Leave Request System** from the ground up. The goal was to create an intuitive, scalable system for managing employee leave requests, approvals, and tracking.

Requirement Gathering & Analysis:

The team began by using Eryx's **requirement gathering tool** to capture the business requirements. These included features like leave request submission, approval workflows, leave balance tracking, and reporting.

Eryx generated an **analysis document** that outlined the system's architecture, data models, and functional requirements, which were reviewed and customized by the developers.

Data Model Design:

Eryx automatically designed the **data models** for the system, including **Employee**, **LeaveRequest**, **LeaveBalance**, and **Approval** entities. The relationships between these entities were clearly defined, and the developers were able to review and make changes as necessary.

CRUD Operations and API Generation:

Eryx then generated the **CRUD operations** for interacting with the database. This included the **API controllers**, **service classes**, and **repository patterns** required to manage leave requests, approve or reject them, and track the leave balances.

Front-End Layer:

Eryx automated the creation of the **front-end layer**, generating **UI components** such as leave request forms, approval dashboards, and reporting tools.

Benefits:

Faster Time-to-Market: The team reduced development time by automating key aspects of the project, enabling them to deliver the solution in a fraction of the time it would have taken manually.

Consistency and Quality: Eryx's AI-driven code generation ensured consistency across the entire solution, improving code quality and maintainability.

Ease of Use: With Eryx automating the data model, CRUD operations, and front-end generation, the development team was able to focus on the application logic and user experience, rather than worrying about the repetitive tasks.

Watch how Eryx automates the creation of an Employee Leave Request System in real-time here

Requirments.txt

```
**Version:** 1.2
**Date:** October 26, 2023
**Prepared by:** Expert Software Business Analyst
**Updates done ** ------------------------------
Reverted changes to the User entity. Added a new 'EmployeeProfile' entity to hold employee-specific data like JoinDate and Grad

##Begin List of Entities##
Number of Entities: 33 (5 Existing + 28 New)

Existing Entities (provided, not redefined here):
*   User
*   Role
*   AuditLog
*   RolePermission
*   Permission

New Entities:
*   LeaveType
*   LeavePolicy
*   LeaveRequest
*   LeaveBalance
*   HolidayCalendar
*   HolidayEntry
*   PolicyRule
*   LeaveTransaction
*   EmployeePolicyAssignment
*   LeaveStatusLog
*   ApprovalWorkflowDefinition
*   ApprovalProcessStep
*   EmployeeReportingLine
*   LeaveDelegation
*   LeaveComment
*   PolicyAccrualRule
*   PolicyCarryoverRule
*   SystemConfigurationEntry
*   RequestAttachmentData
*   DepartmentUnit
*   LocationSite
*   EmploymentTerm
*   IntegrationEventLog
*   ReportingDefinition
*   ReportingFilter
*   AbsenceReasonCategory
*   PolicyConstraintRule
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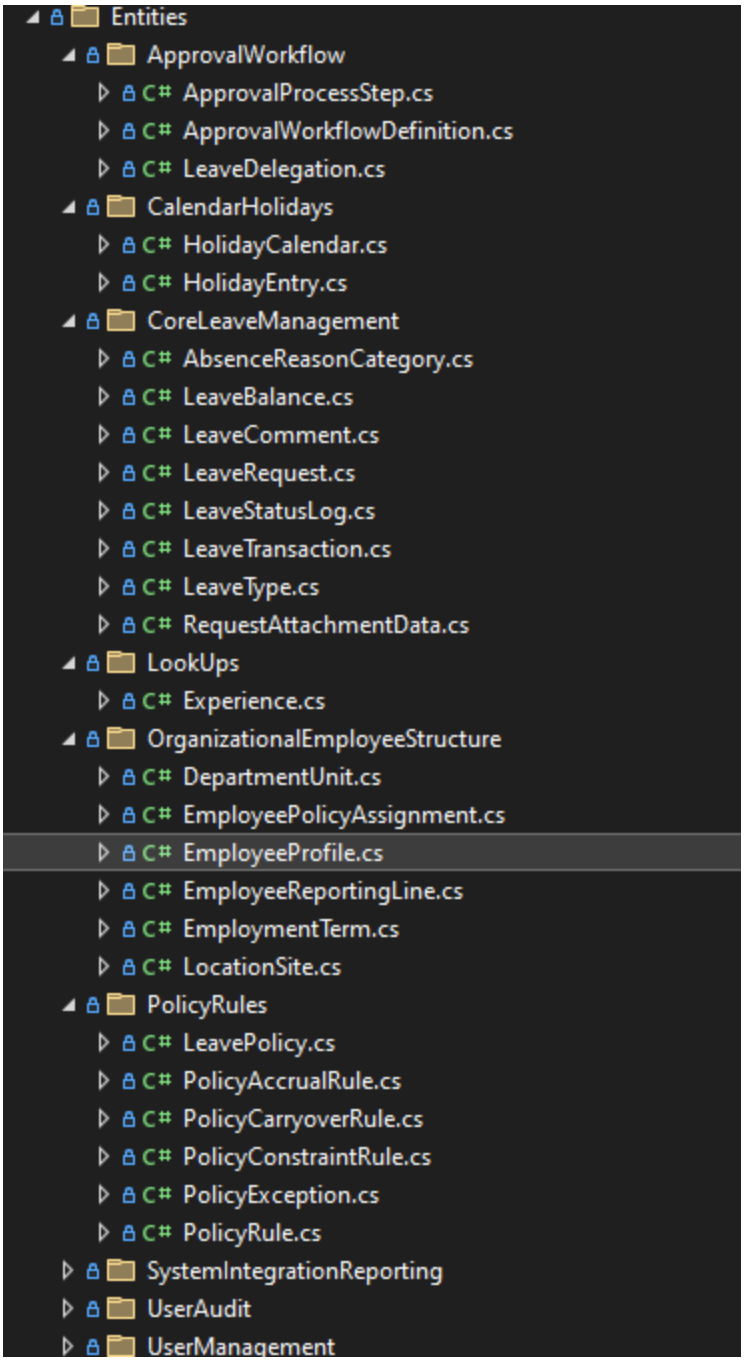
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ApprovalWorkflowDefinition.cs
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HolidayCalendar.cs
HolidayEntry.cs
CoreLeaveManagement
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LeaveBalance.cs
LeaveComment.cs
LeaveRequest.cs
LeaveStatusLog.cs
LeaveTransaction.cs
LeaveType.cs
RequestAttachmentData.cs
LookUps
Experience.cs
OrganizationalEmployeeStructure
DepartmentUnit.cs
EmployeePolicyAssignment.cs
EmployeeProfile.cs
EmployeeReportingLine.cs
EmploymentTerm.cs
LocationSite.cs
PolicyRules
LeavePolicy.cs
PolicyAccrualRule.cs
PolicyCarryoverRule.cs
PolicyConstraintRule.cs
PolicyException.cs
PolicyRule.cs
SystemIntegrationReporting
UserAudit
UserManagement

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33 references
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{
    [Key]
    12 references
    public long Id { get; set; }
    [Required]
    6 references
    public long UserId { get; set; }
    // Navigation property to the existing User entity
    [ForeignKey("UserId")]
    7 references
    public virtual User User { get; set; }
    [Required]
    [MaxLength(50)]
    6 references
    public string EmployeeId { get; set; }
    [Required]
    5 references
    public DateTime DateOfJoining { get; set; }
    5 references
    public int? GraduationYear { get; set; }
    5 references
    public string WorkScheduleJson { get; set; }
    [Required]
    6 references
    public long DepartmentUnitId { get; set; }
    [ForeignKey("DepartmentUnitId")]
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    [MaxLength(50)]
    [Phone]
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    public string ContactPhone { get; set; }
    5 references
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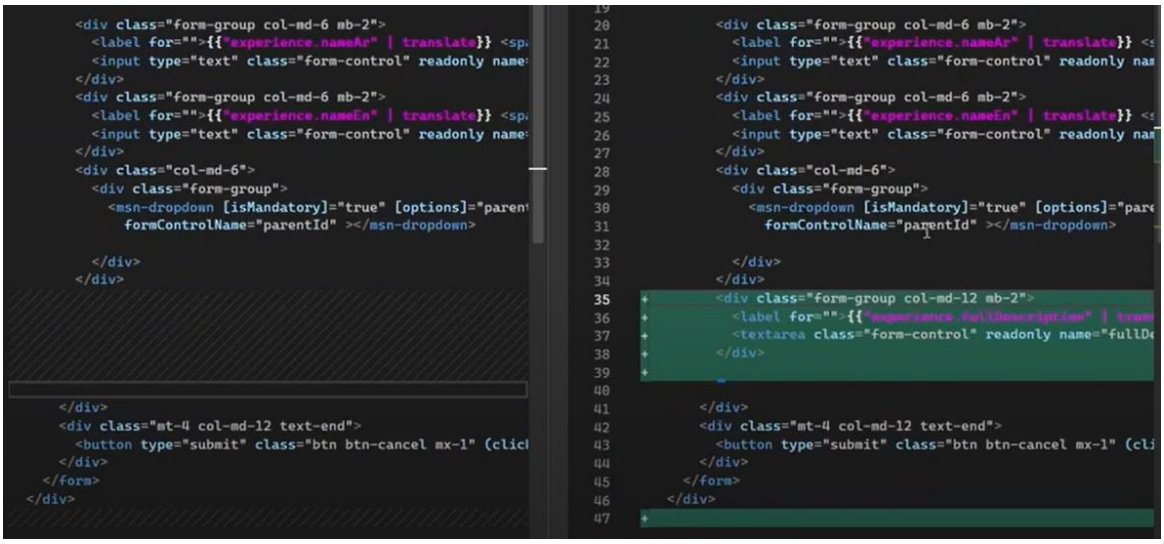

Planned Updates to Eryx

As **Eryx** continues to evolve, there are several exciting developments and enhancements planned that will further expand its capabilities, integration, and usability. Eryx aims to be a cutting-edge tool that adapts to the evolving needs of software developers. The following outlines the key areas of focus for Eryx's future growth.

1. Planned Updates to Eryx

Eryx is committed to continually improving and adding new features to better serve developers. Some of the planned updates include:

Support for More Technologies and Frameworks:

Eryx currently supports **.NET** and **Angular**, with plans to expand its capabilities to include more **backend development tools**, **frontend frameworks**, and **mobile platforms**. Some of the planned frameworks and technologies include:

- **Backend Development Tools**: Eryx will support additional backend technologies such as **Node.js**, **Ruby on Rails**, **Spring Boot (Java)**, and **Django (Python)**.
- **Frontend Frameworks**: Eryx will introduce support for popular **frontend frameworks** like **ReactJS**, **Vue.js**, **Svelte**, and **Ember.js**.
- **Mobile Development**: Eryx will extend its capabilities to **mobile platforms**, providing support for **Flutter**, **React Native**, and **Xamarin**, enabling developers to automate both web and mobile application development.

Enhanced Customization Options:

Future versions of Eryx will offer more **customization options** for developers, allowing them to define specific coding conventions, architecture patterns, and project structures. This ensures that Eryx-generated code is perfectly tailored to individual teams' needs and preferences.

Support for Advanced Features:

New features such as **advanced security configurations**, **automated testing** setups, and **continuous integration/continuous deployment (CI/CD) pipelines** will be integrated into Eryx, allowing for even more comprehensive automation across the entire SDLC.

More Frontend Templates:

Eryx will offer an expanded set of **frontend templates** that can be used to jumpstart projects in various design patterns and layouts, enabling developers to quickly scaffold user interfaces that meet their specific needs.

Expanded Backend Architectures:

Eryx will support more **backend architectures** to accommodate different project requirements, including:

- **Microservices Architecture**: Eryx will generate scalable, loosely coupled services with well-defined APIs, making it easier to build and deploy microservices-based applications.
- **Domain-Driven Design (DDD)**: Eryx will provide scaffolding for **domain-driven design**, helping developers structure their applications around the business domain and ensuring better alignment between the software and the business processes.
- **Clean Architecture**: Eryx will also support **clean architecture**, ensuring that business logic is separated from the UI and database layers, which will result in more maintainable and testable code.

Automatic Test Plan Creation:

Eryx will integrate **automated test plan generation**, allowing developers to quickly generate test plans that align with the project requirements and architecture. These plans will outline testing requirements and ensure coverage across different types of testing.

Unit Testing and Integration Testing:

Eryx will generate **unit test scripts** and **integration test scripts** automatically based on the generated code. This will ensure that new features and updates are well-tested from the start, reducing the chances of bugs and ensuring higher code quality.

Performance Testing Scripts:

In addition to unit and integration tests, Eryx will also generate **performance testing scripts**, ensuring that the application's performance is consistently evaluated. These scripts will test various aspects of the application, including load handling, response times, and scalability.

2. Community-Driven Improvements

Feedback Loop and Feature Requests:

Eryx will implement a **feedback system** where users can easily suggest new features, report bugs, and share their experiences. This will create an open channel for communication between the Eryx team and its users, enabling rapid responses to emerging needs.

Documentation and Community Tutorials:

As the Eryx user base grows, the tool will offer more comprehensive documentation and community-generated tutorials. These resources will help developers get the most out of Eryx, providing step-by-step guides, use cases, and tips shared by the community.

Marketplace for Extensions and Plugins:

A marketplace will be introduced where developers can create and share **extensions**, **plugins**, or **templates** designed to work within Eryx. This will allow developers to extend Eryx's functionality to suit specialized needs,