

Error Assistance Tool

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AGENDA

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Introduction

Error Assistance Tool, developed as part of Software Package Development lab, focusses on the compilation errors faced by programmers. These errors, sometimes can be trivial yet hard to crack. From syntax errors, type errors to faulty indentations, it can be frustrating to determine and correct them. We as computer science students often faced this and thought what can be done about them. After some searching we came across this idea in Crio's Blog post, where the problem statement was posed without the actual implementation. We took it up and implemented the same successfully for our project.

Problem Statement

When developing products/services, programmers often experience coding errors which arise due to carelessness or due to lack of knowledge on the particular instance. We all come across errors while coding, whenever we encounter an error, the first thing we do is we search for those errors and ultimately we land up in a StackOverflow page. It can be hectic at times when we cannot find the right answer to the error. So what if an application detects the errors in your code and searches about it on stackoverflow and shows you the related answers? This is the ultimate aim of this application.



Objective

The objective of this project is to help programmers easily resolve their errors. Stackoverflow being the go to platform for searching solution for our errors, when you upload your file in our application, it will detect the error in your code and automatically fetches the related Stack Overflow solutions and opens them up in various tab. Also our application shows the history of searches made by a particular user, so that if they want to see the solution for their error again, they can directly see them up in history section instead of uploading the file again.

Requirements

→ Registration and Login:

The system allows registration of new users and login of registered users. The user id and password of registered users are maintained in a database. The user id and password of new users are checked for validity and stored in the database.

→ History of previous searches:

This feature provides an option to list the previous searches. This enables the user to quickly refer to the search posted recently.

→ Coding error aids:

Coding errors files are uploaded by programmers. Based on the error, appropriate StackOverflow threads are opened in new tabs.

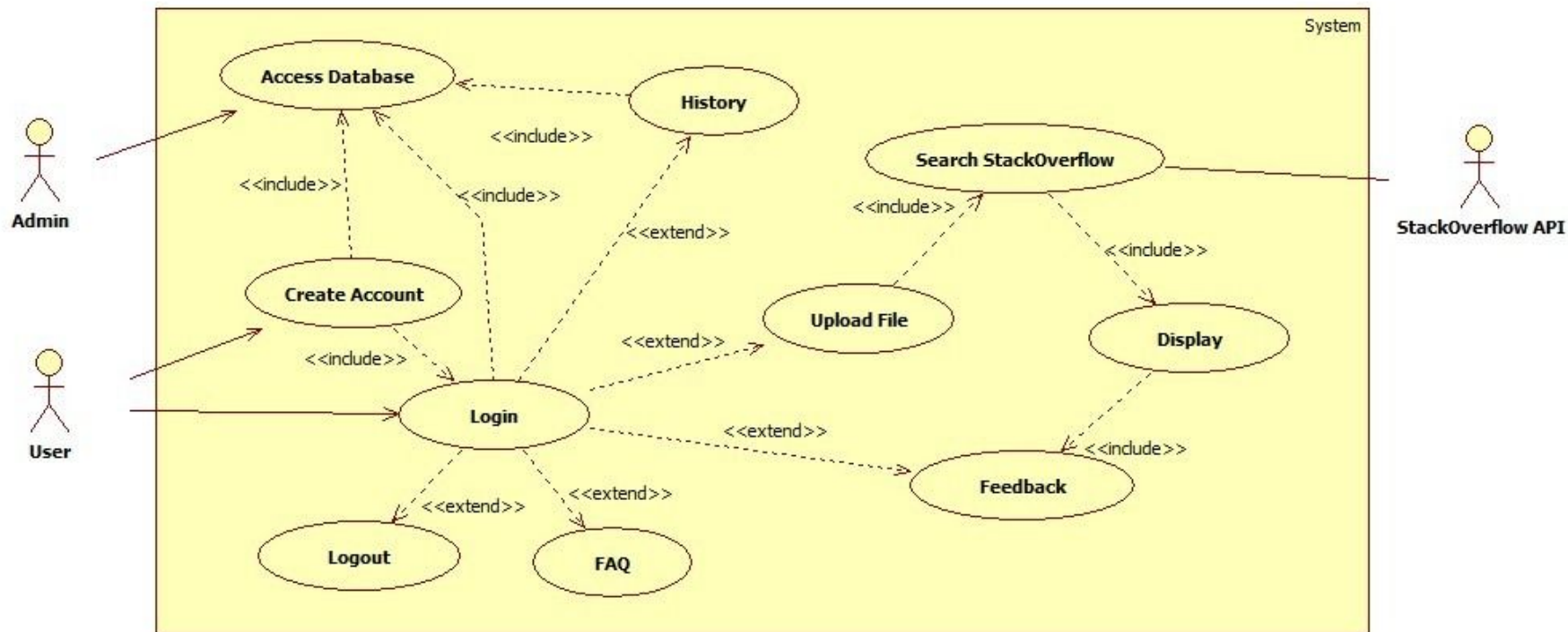
→ Frequently asked questions:

It lists FAQ regarding doubts on how to navigate through the web application.

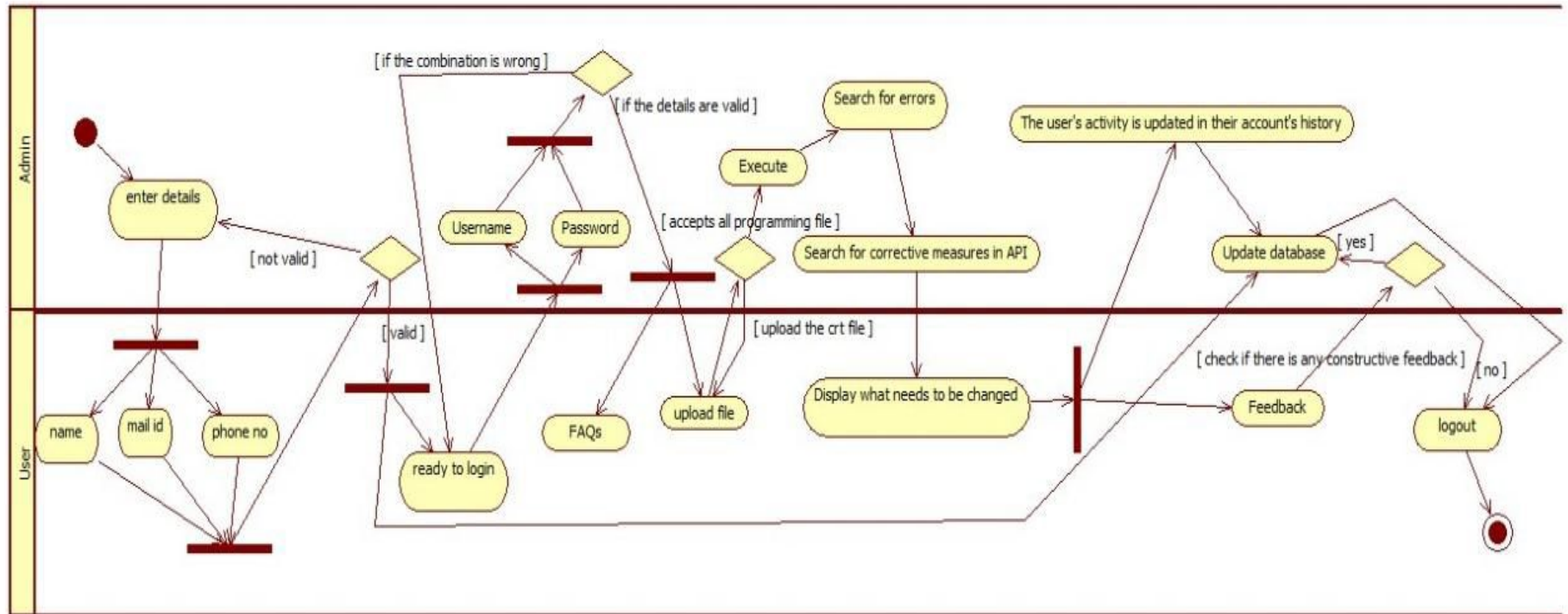
→ Feedback:

Users are given an option to provide their feedback on the system and on the suggestions provided.

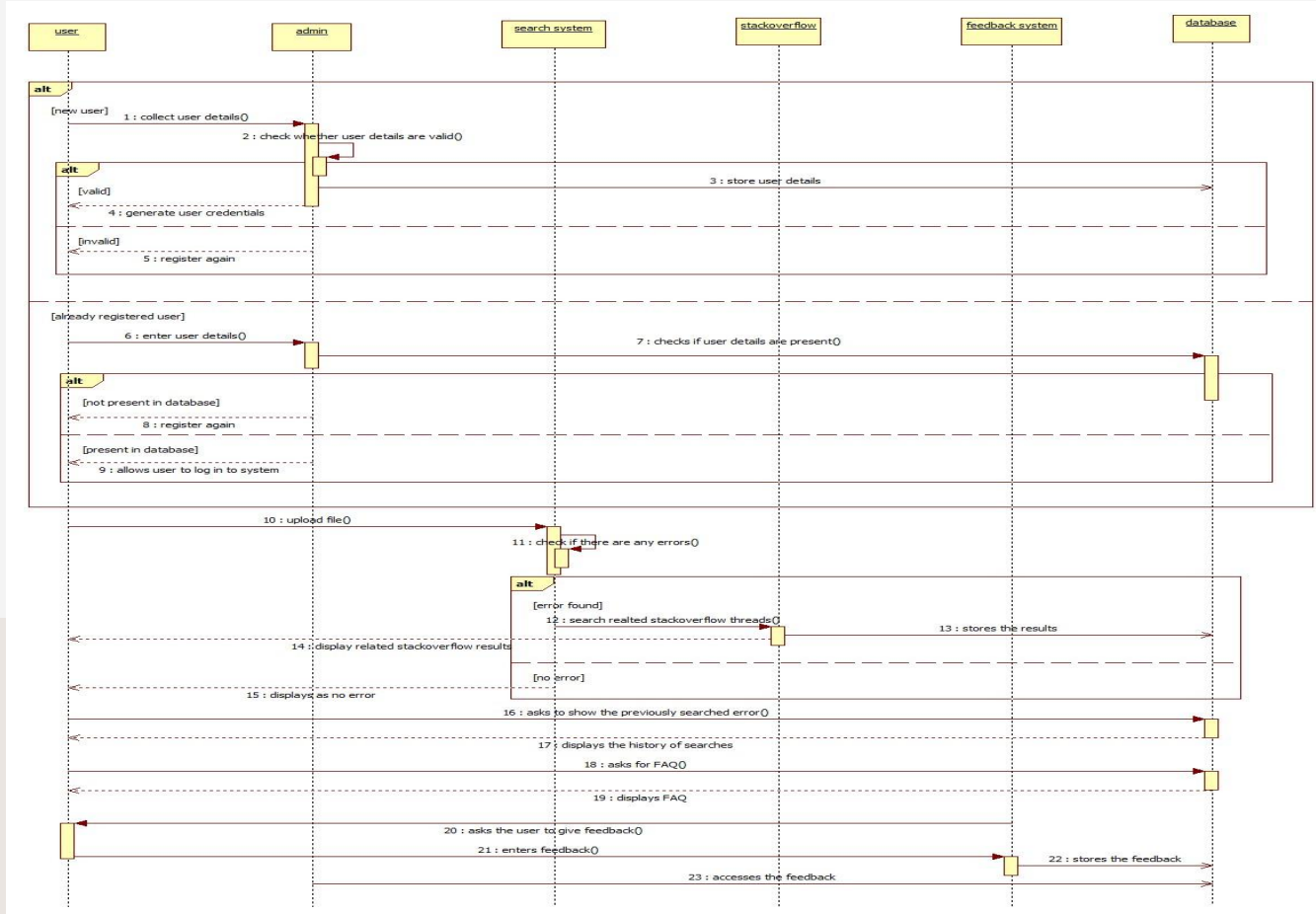
Design - Usecase Diagram



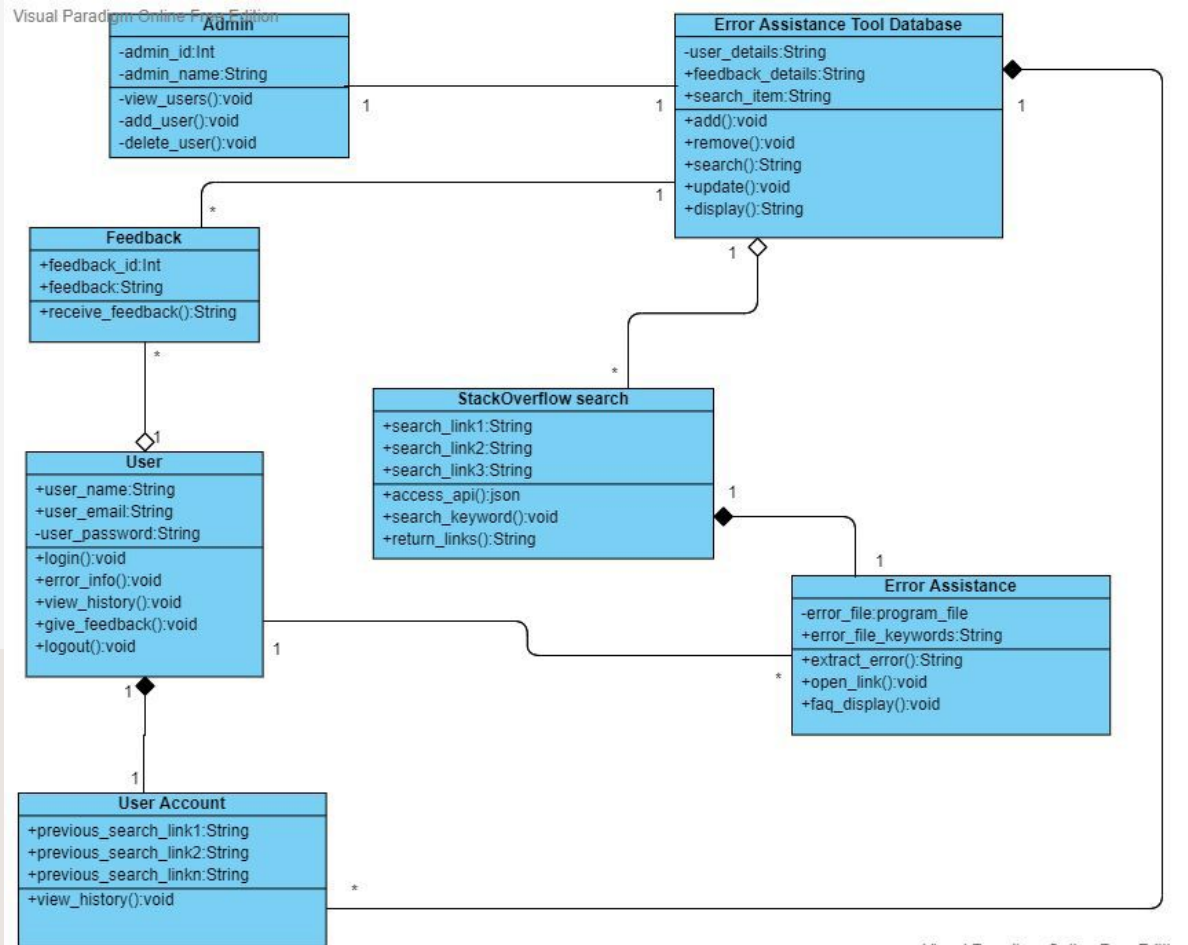
Activity Diagram



Sequence Diagram



Class Diagram



System Requirements

Front end:

Languages used: HTML CSS JS

Frameworks used: Bootstrap

Backend:

Language used: Python

Framework used: Flask

Database: MySQL

Hardware Requirement:

The Error Assistance Tool is a web application and requires a system with a proper operating system, stable internet connection and a good web browser, preferably Google Chrome.

Contribution of team

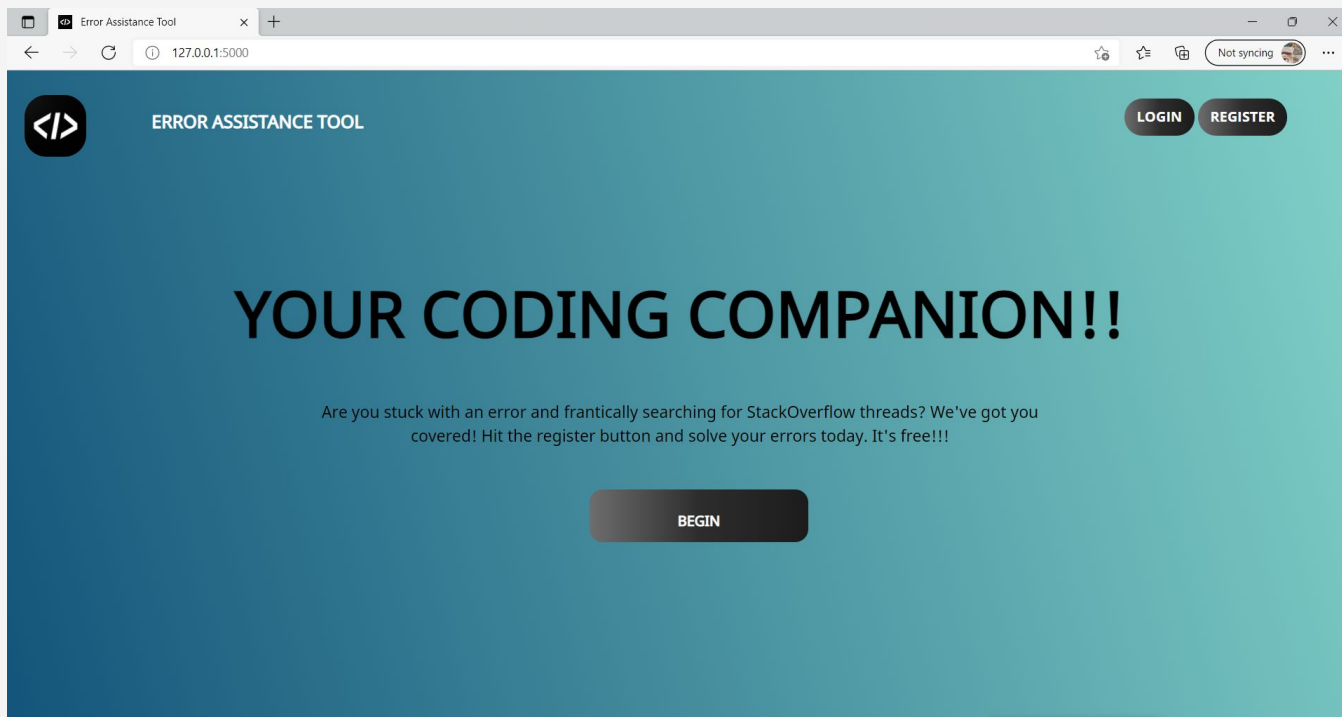
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Kaniska Varsini P D 19Z222

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Pranitha V S 19Z233

Back-end : Pavithra L 19Z231
Swetha G 19Z252

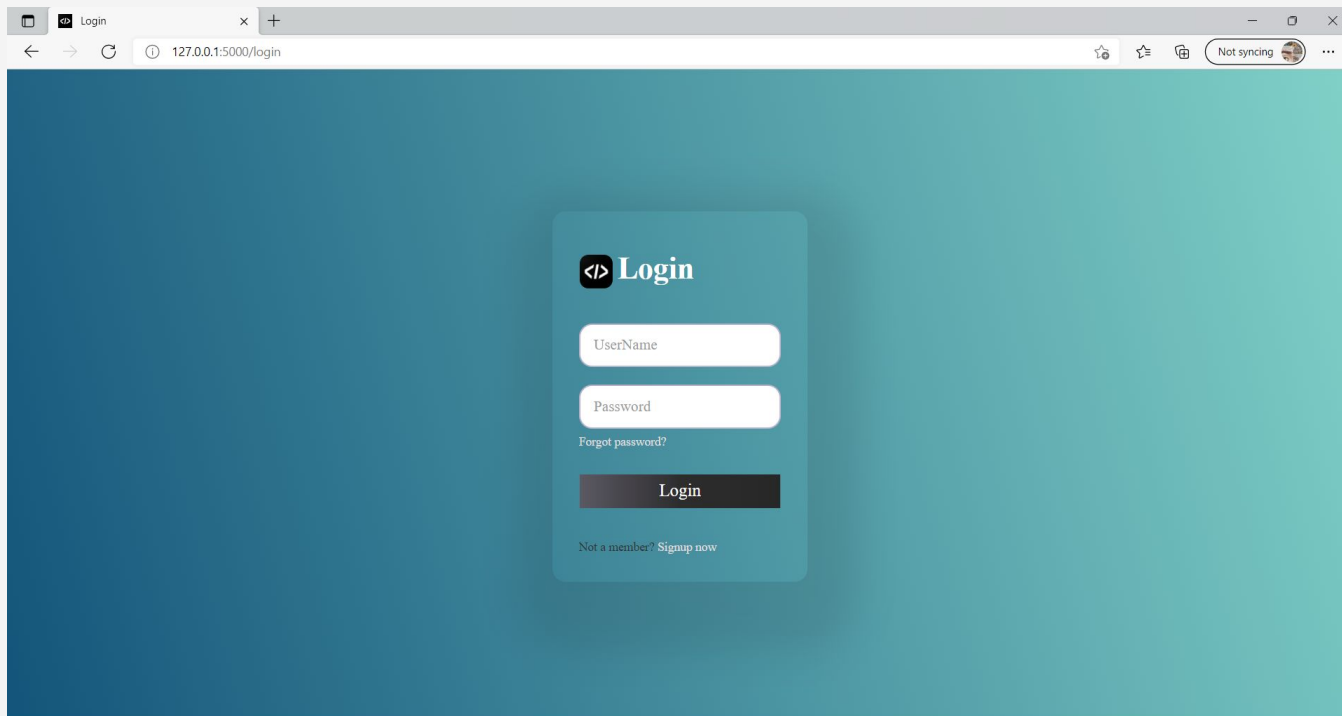
Screenshots

Welcome page:



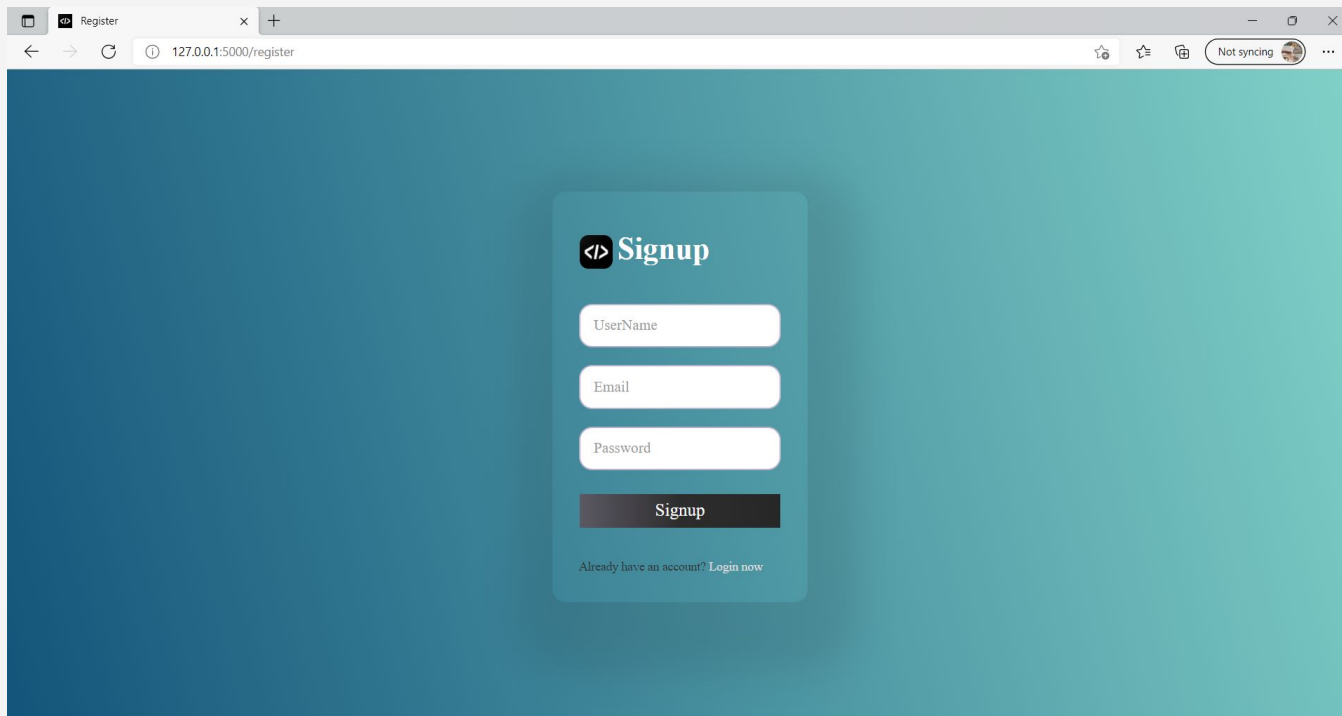
Screenshots

Login page:



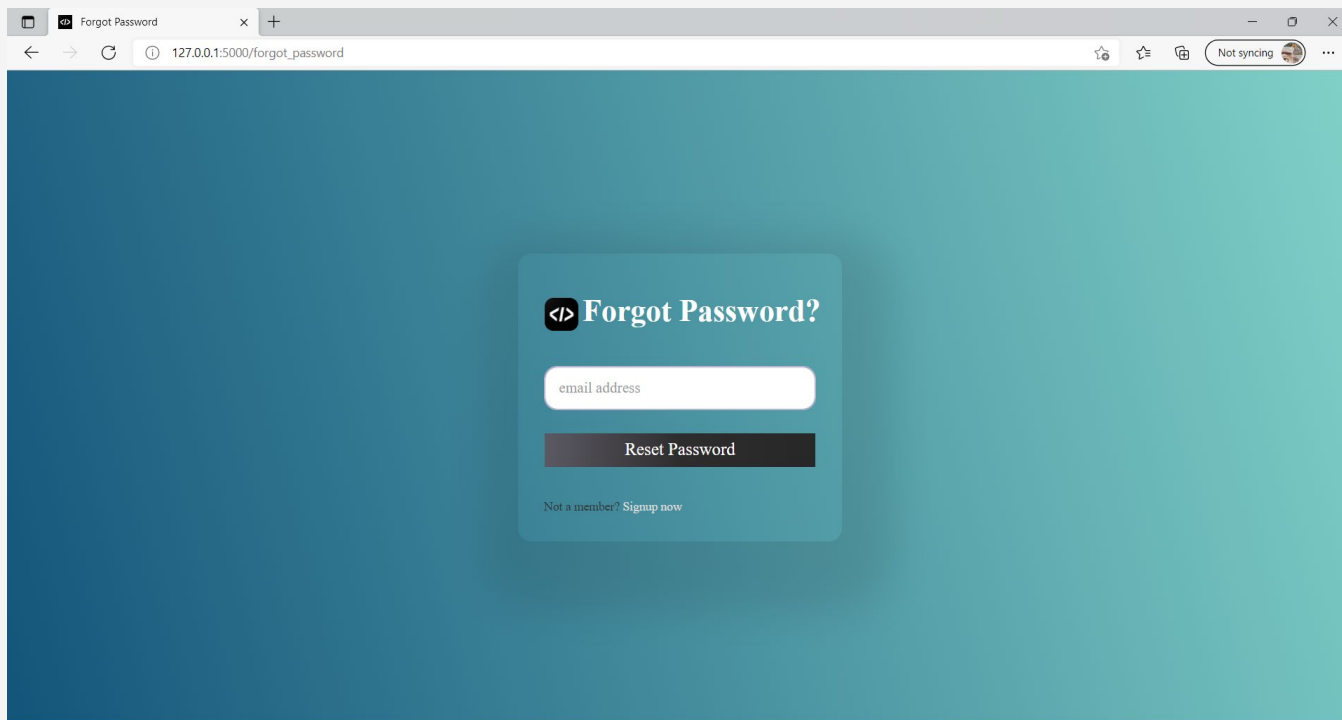
Screenshots

Signup page:



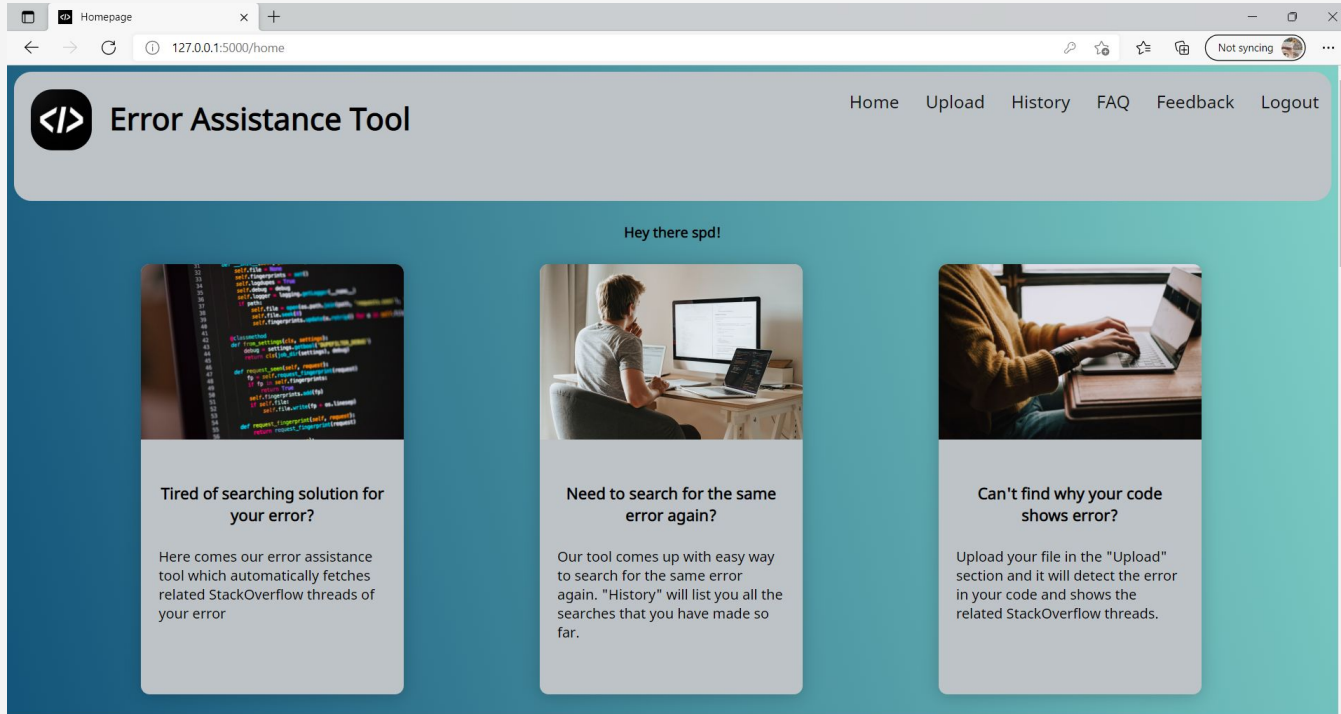
Screenshots

Forgot Password page:



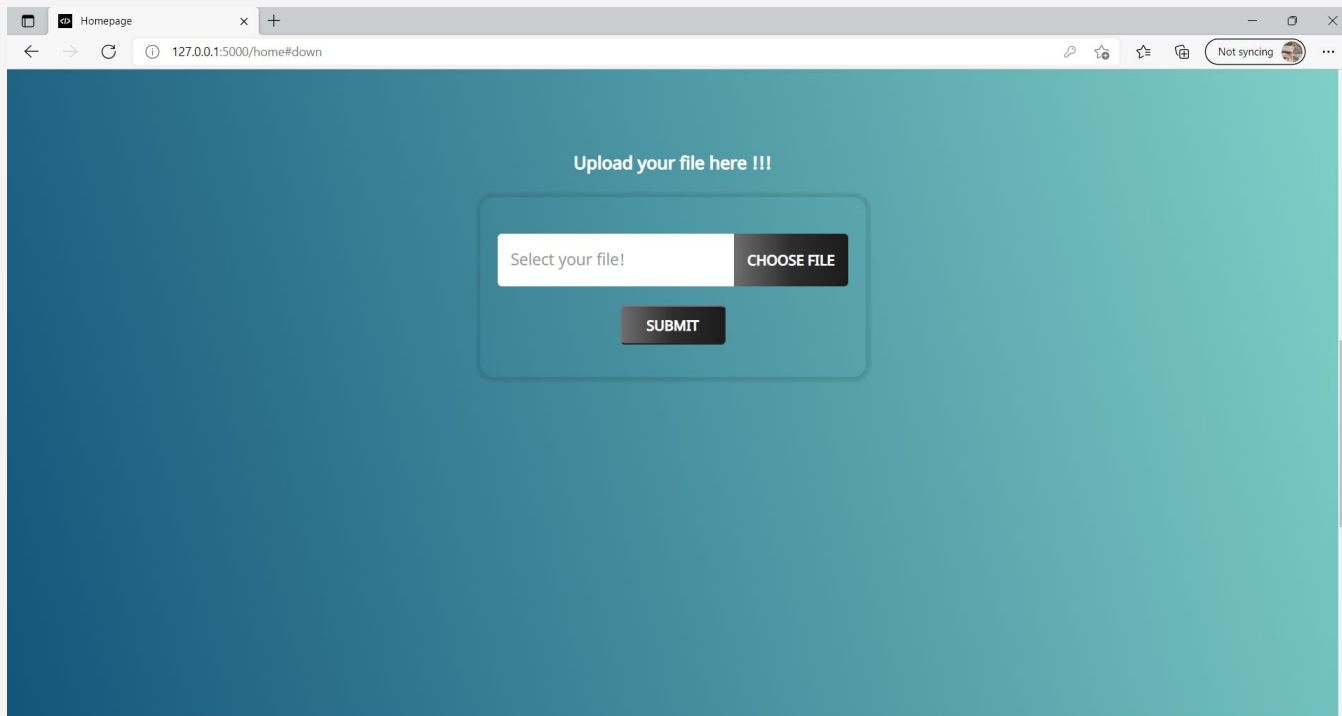
Screenshots

Home page:



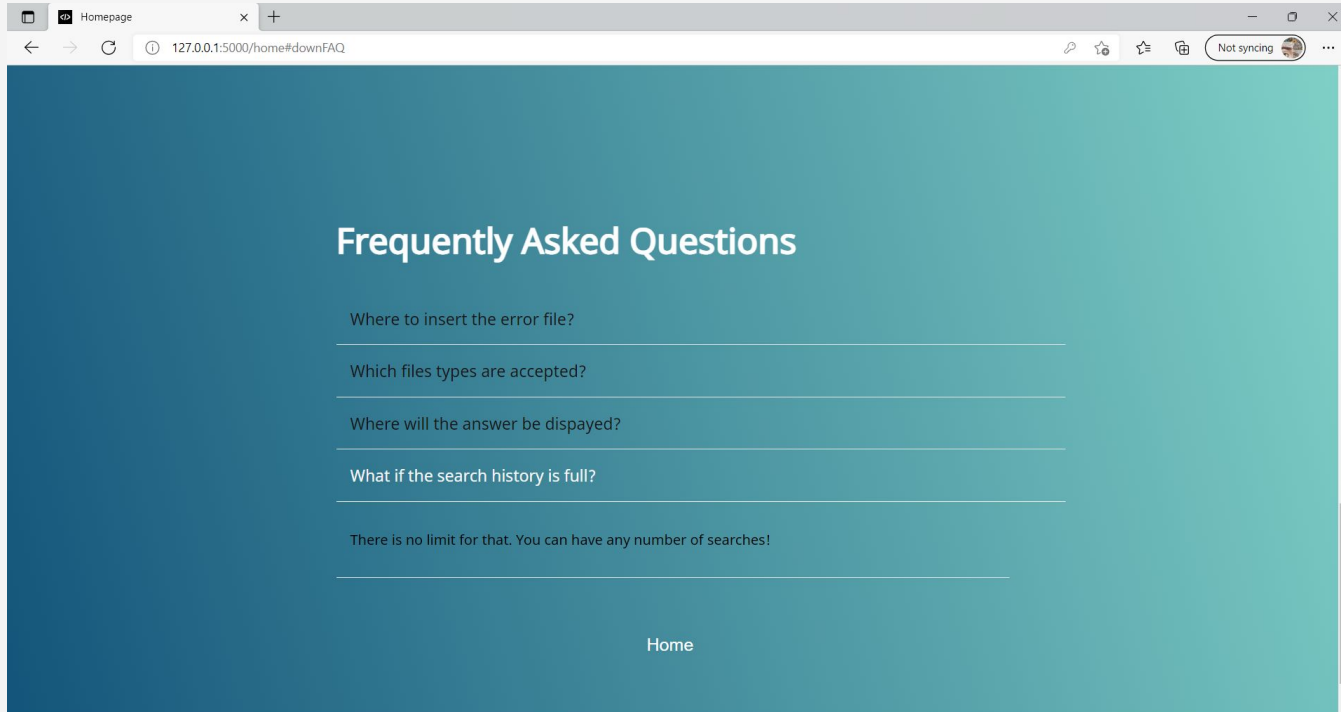
Screenshots

Upload file section in Home page:



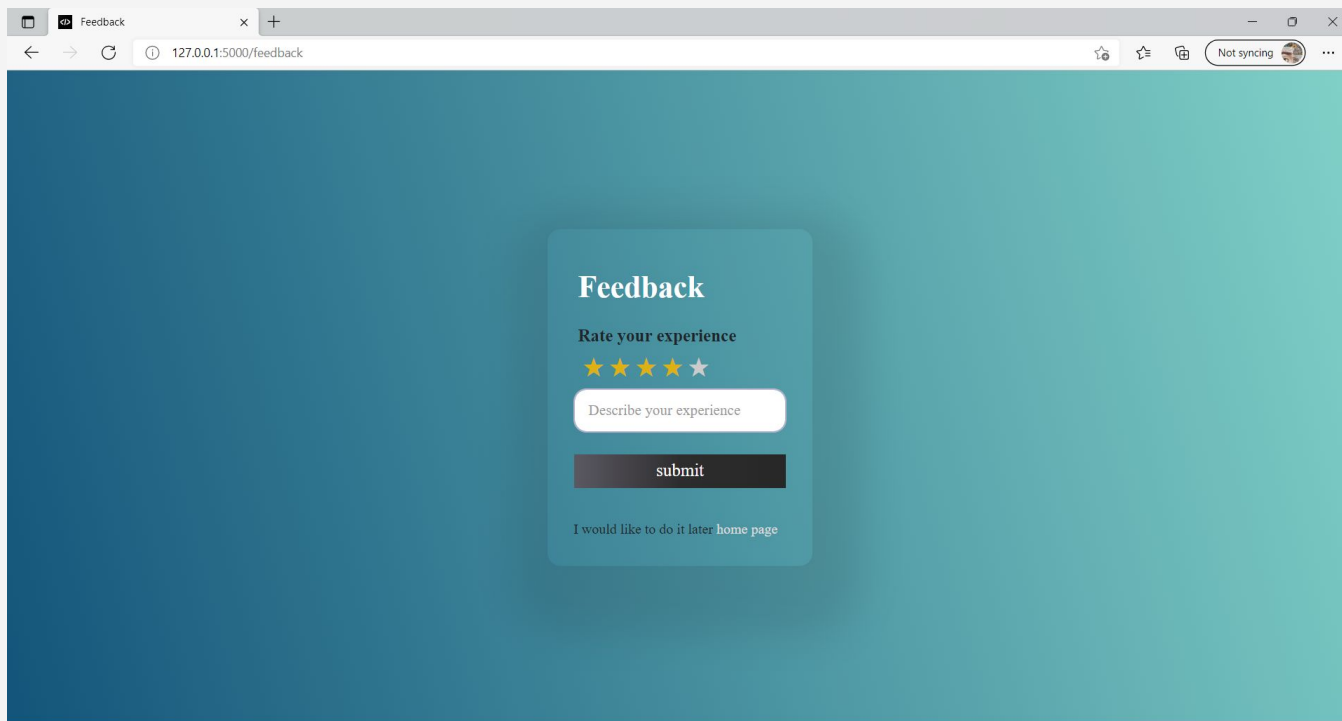
Screenshots

FAQ Section in Home page:



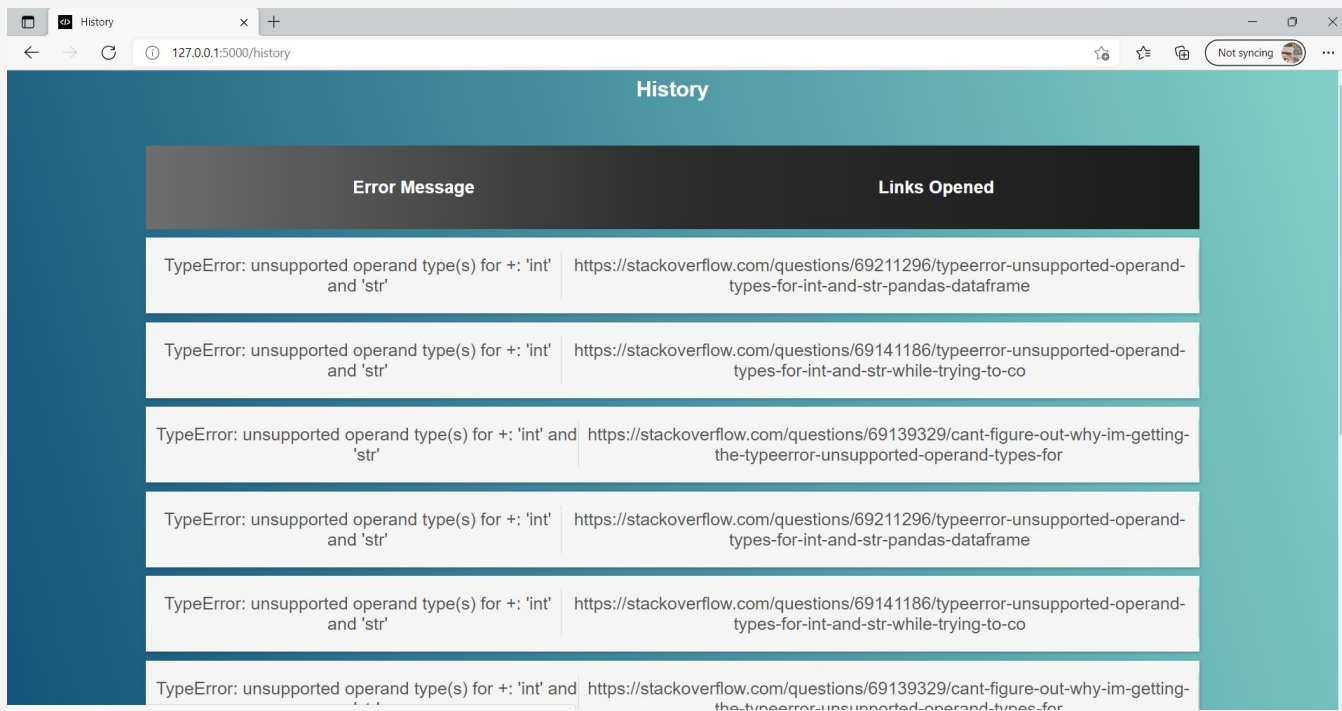
Screenshots

Feedback page:



Screenshots

History page:



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/history'. The page title is 'History'. The content is a table with two columns: 'Error Message' and 'Links Opened'. The table contains six rows of data, each representing a specific error and the corresponding Stack Overflow link used to resolve it.

Error Message	Links Opened
TypeError: unsupported operand type(s) for +: 'int' and 'str'	https://stackoverflow.com/questions/69211296/typeerror-unsupported-operand-types-for-int-and-str-pandas-dataframe
TypeError: unsupported operand type(s) for +: 'int' and 'str'	https://stackoverflow.com/questions/69141186/typeerror-unsupported-operand-types-for-int-and-str-while-trying-to-co
TypeError: unsupported operand type(s) for +: 'int' and 'str'	https://stackoverflow.com/questions/69139329/cant-figure-out-why-im-getting-the-typeerror-unsupported-operand-types-for
TypeError: unsupported operand type(s) for +: 'int' and 'str'	https://stackoverflow.com/questions/69211296/typeerror-unsupported-operand-types-for-int-and-str-pandas-dataframe
TypeError: unsupported operand type(s) for +: 'int' and 'str'	https://stackoverflow.com/questions/69141186/typeerror-unsupported-operand-types-for-int-and-str-while-trying-to-co
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Thank You!