

A Minor Project Mid Term Presentation On

Python Bugs Finder



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Affiliated to Pokhara University

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Table of content

- ❖ INTRODUCTION
- ❖ PROBLEM STATEMENT
- ❖ PROJECT OBJECTIVES
- ❖ METHODOLOGY
- ❖ TOOLS AND TECHNOLOGY
- ❖ USE CASE DIAGRAM
- ❖ DATABASE DIAGRAM
- ❖ TASK DONE SO FAR
- ❖ SCREENSORTS
- ❖ TASK REMAINING

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INTRODUCTION

- ❖ Platform where users can upload their code for debugging
- ❖ Receive assistance in identifying and resolving errors
- ❖ Platform that leverages the power of Large Language Models (LLMs) for debugging the code
- ❖ Automated Code Analysis in less time



PROBLEM STATEMENT

- ❖ Difficulties in finding bugs and fix them in less time
- ❖ Existing debugging tools are complex and not accessible to all developers
- ❖ Struggle to identify and resolve bugs accurately and quickly.
- ❖ Existing automated tools lack sophisticated contextual understanding



PROJECT OBJECTIVES

- ❖ To develop a system for automatically identify bugs in user-submitted code.
- ❖ To generate comprehensive reports detailing identified bugs
- ❖ To equip administrators with tools to manage user registrations, login activities, and permissions.

METHODOLOGY

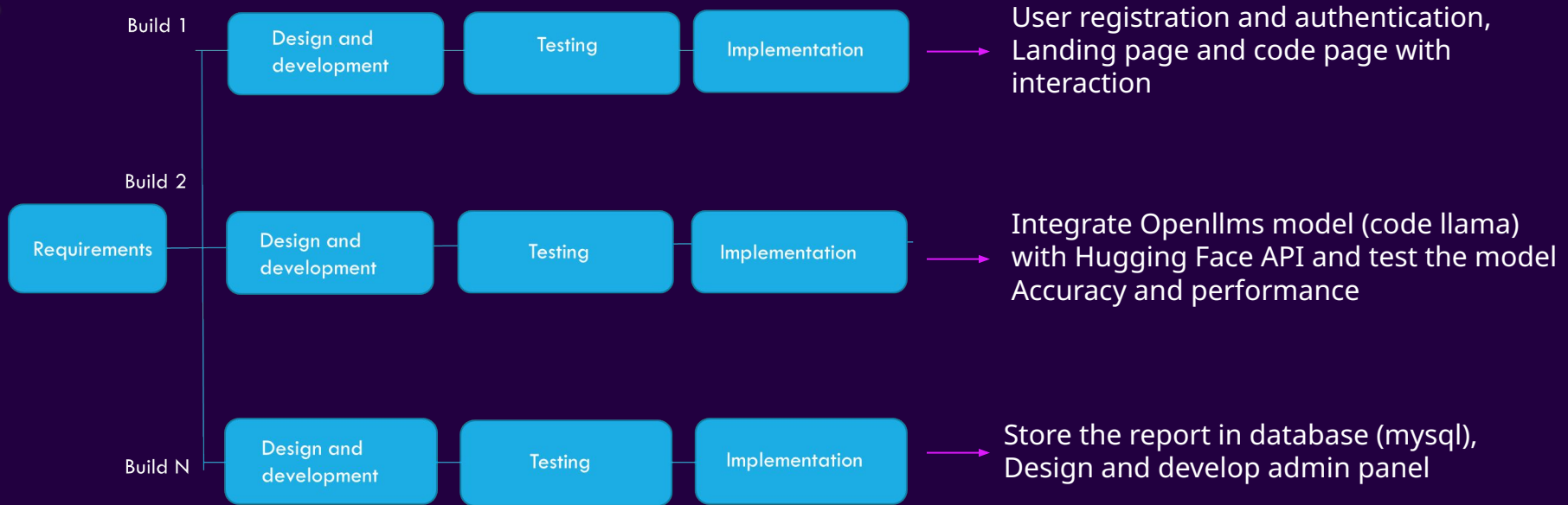
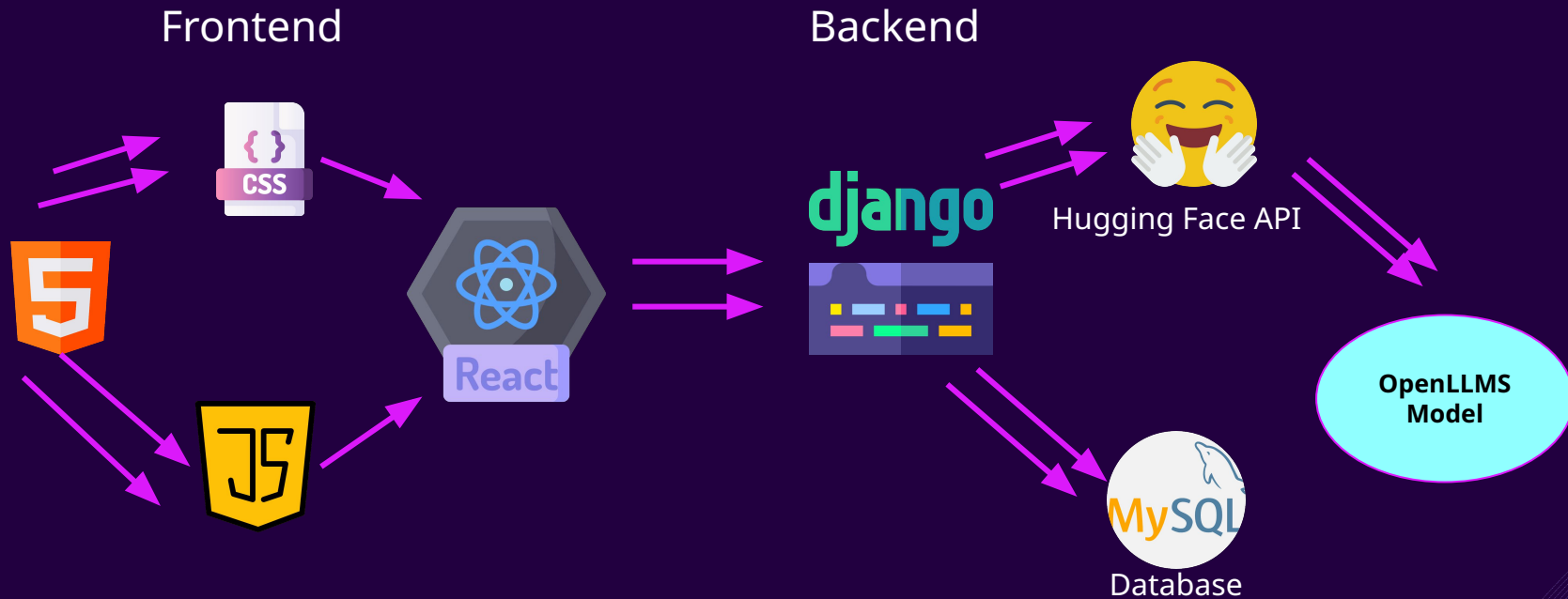


Fig : Incremental Model

TOOLS AND TECHNOLOGY



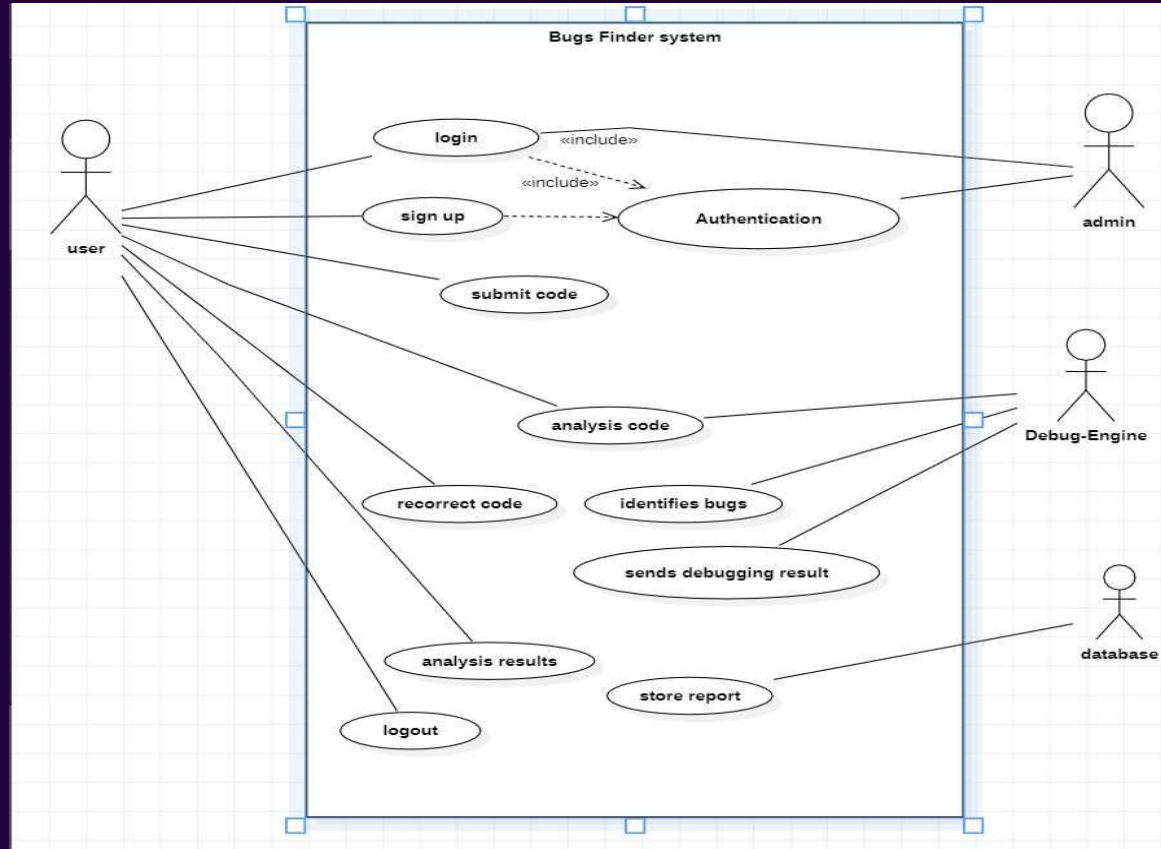
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Project Task and Time Schedule

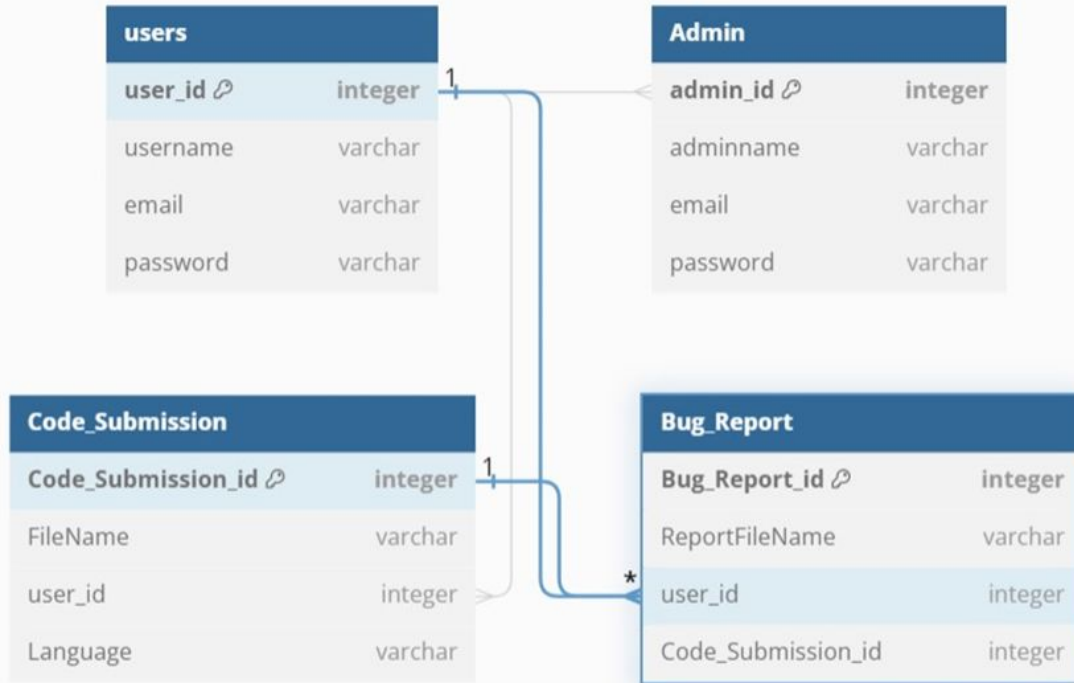
| Team Member | Role | Responsibilities |
|-------------------------|--------------------|---|
| BIKASH BANJADE | Frontend Developer | Prepare the User Interface (UI) of Bugs Finder Website |
| APSARA ARYAL | Frontend Developer | Prepare the User Interface (UI) of the Admin Panel |
| DHIRAJ YADAV | Backend Developer | Integrate the OpenLLMs model, Fine Tuning the model, Handle API endpoints requests from model and send responses to the website |
| SANDESH ADHIKARI | Backend Developer | Manage the database and handle documentation. |

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USE CASE DIAGRAM



DATABASE DIAGRAM






TASK DONE SO FAR

- ❖ We select our front-end and backend coding framework,
- ❖ We design our login and signup page,
- ❖ We design our admin dashboard and home page,
- ❖ We design Debug Page and integrate Gemini-1.5-flash model in it,
- ❖ API is developed for fetching data from front-end to backend,
- ❖ We also design the database to authenticate the user in Bugs Finder System,


Sign In page



Bug Finder

[Home](#) [Features](#) [Highlights](#) [Let's Debug](#)

[Sign in](#) [Sign up](#)



Sign in

Email Address *

Password *


☐ Remember me

Sign in

[Forgot password?](#) [Don't have an account? Sign Up](#)

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Sign Up



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Sign up

First Name *

Last Name *

Email Address *

Password *

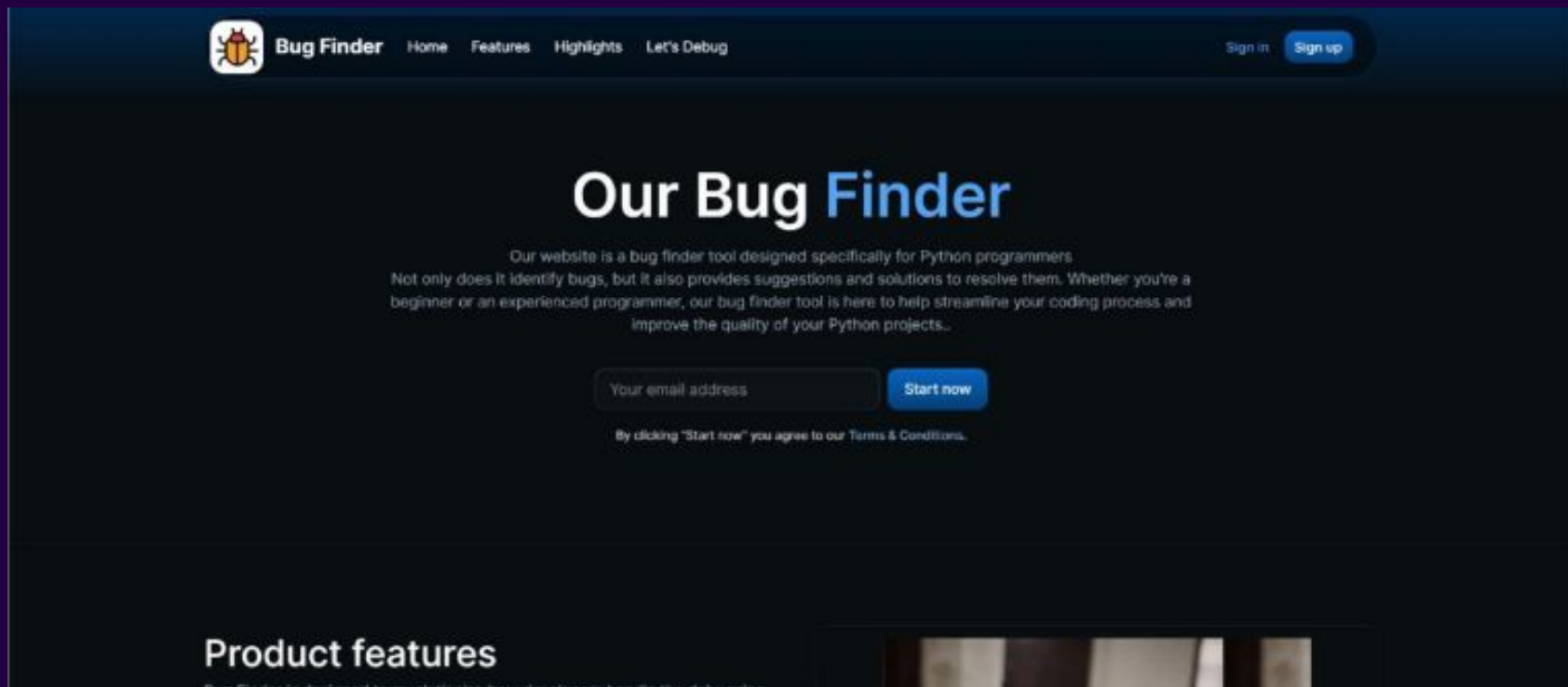
☐ I want to receive inspiration, marketing promotions and updates via email.

Sign Up

Already have an account? [Sign in](#)

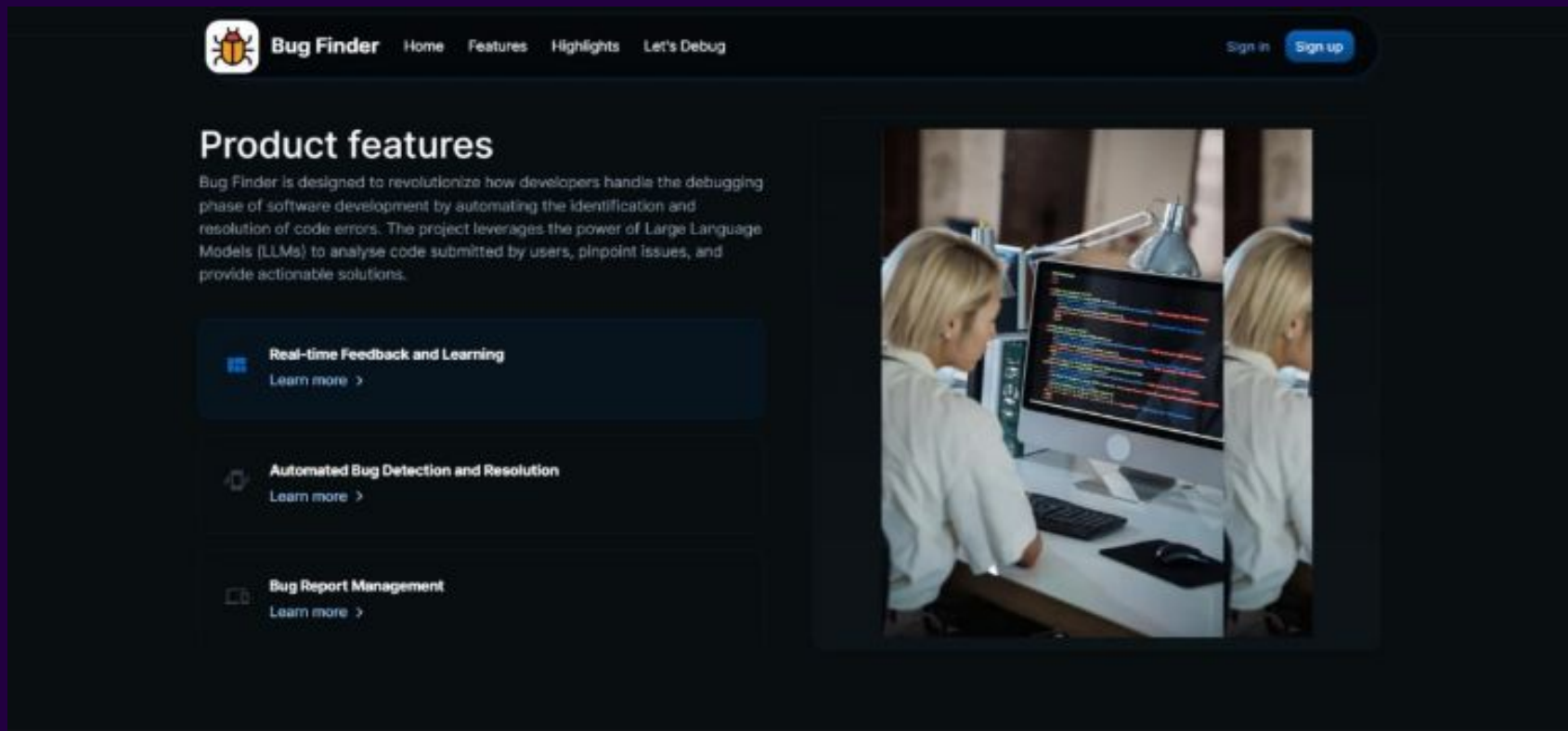
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Home Page



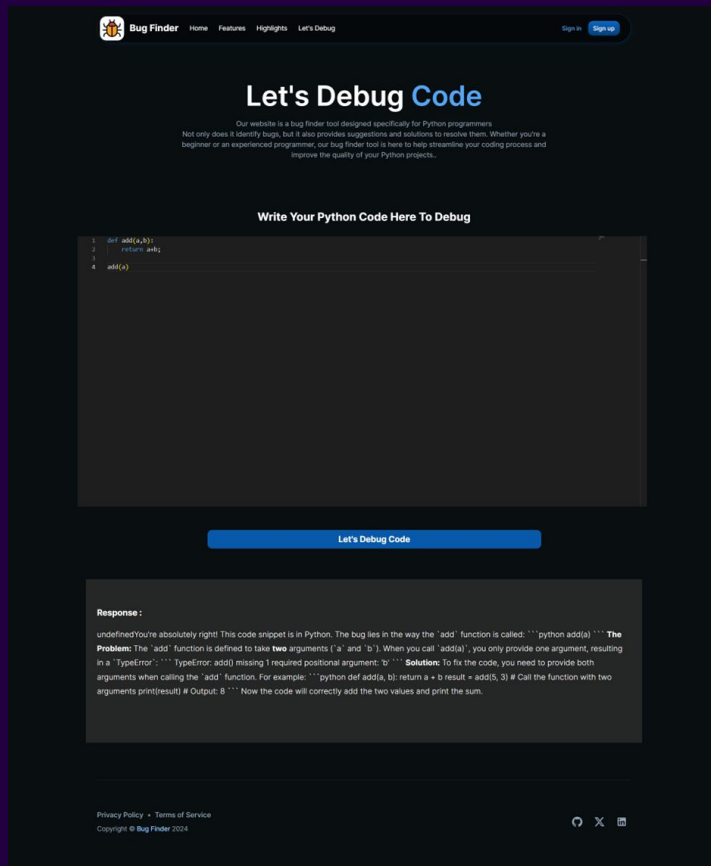
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Features page



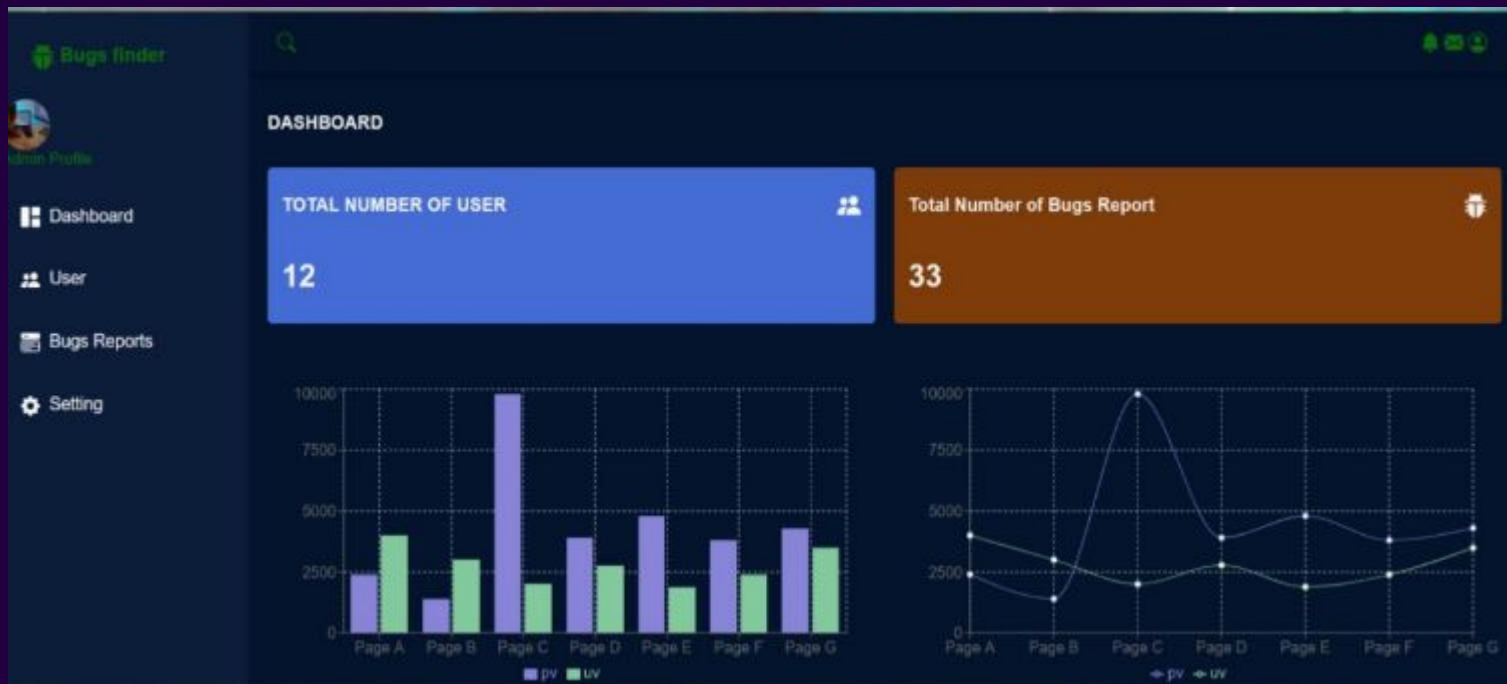
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Let's Debug page



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Highlights page



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Task Remaining

- ❖ To work on user authentication mainly in login part with API.
- ❖ To integrate admin pages sufficiently.
- ❖ To provide the bugs reporting system.



Thank You !!!

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