

HIGH LEVEL DOCUMENT

Project Title : Project Store

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Abstract

In larger organisations there are many projects that are implemented. Also we can consider some personal projects implemented by us. So this project is all about systematically arranging all your projects at one place so that it can be accessed by you anytime. It's similar to Google play store or Microsoft Store where all the applications are stored at one place. We have used FastAPI and MySQL as a database management tool.

1. Introduction

1.1 Why this High-Level Design Document ?

The purpose of this High-Level Design (HLD) Document is to add the important details about this project. Through this HLD Document, I'm going to describe every small requirement about this project.

2. General Description

2.1 Product Perspective

To store all your application details safely in one place in an organised manner.

2.2 Problem Statement

A firm wants to manage and store all their applications that they have implemented at one place in a secured environment.

2.3 Proposed Solution

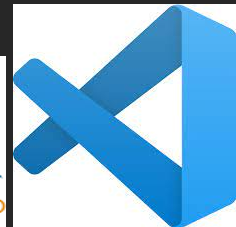
The solution is a Project Store just like an App store which would have various functionality like to add, search, and delete applications. For security purposes we have added Authorization and Authentication which only gives access to the registered users. All the information is stored in a secured and protected MySQL Database.

2.4 Technical Requirements

Here are some requirements for this project.

1. MySQL database to store logs and exceptions.
2. Expose api's for other integrations.

2.5 Tools Used



- Visual Studio Code is used as an IDE.
- Heroku is used for deployment
- MySQL is used to retrieve, insert, delete, and update the database.
- Front end development using HTML/CSS/Bootstrap
- FastAPI is used for the backend.
- GitHub is used as a version control system.

3. Design Details

3.1 Process Flow



3.2 Event Log

In this Project we are logging every process so that the user will know what process is running internally. We have defined logging for every function, class.

By logging we can monitor every insertion and flow of data in the database, monitor every step which may create problems or every step which is important in the file system.

3.3 Error Handling

We have defined our own exception handling class so we can modify exception errors thrown by any event. If any exception occurs we catch its file name, line number and error message.

4. Performance

4.1 Re-usability

We have followed industry standards while coding and also maintained an object oriented programming approach so in future you can change components or add without any issues.

We have given initial setup script which uses can edit and add components to replicate project

4.2 Application Compatibility

This application is compatible with python 3.7 and above, versions of required libraries are mentioned in the requirements.txt which users can look and twick accordingly.

Code is compatible with both Windows and Linux operating systems. Development system was Windows 11 while the Testing Environment was ubuntu.

4.3 Resource Utilisation

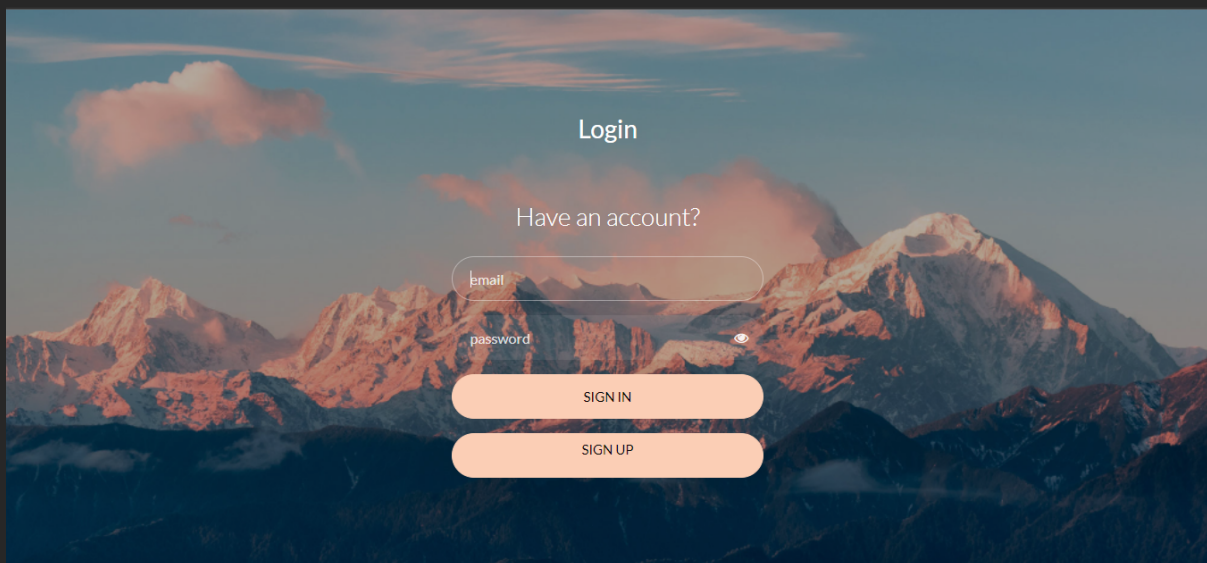
Code is written with proper optimization with the aim in mind to use less resources and perform better. Code to access Database is written with functionality to remove data from if needed. Once the app is added to the store all its information is stored in a secured database.

4.4 User Interface

There are 5 pages.

- Login Page
- Register page
- Home page
- View Application page
- Add Application page

Login Page



Register page

Register

Register Here

email

username

firstname

lastname

password

password2

SIGN UP

LOGIN

Home page

Home Logout Add Application

Welcome to Project Store riishav

These are all your projects

Projects

Title Technology Search

FastAPI
★★★★
This repository contains the FAST-API Learning Documentation, Code

SelfDrivingCar2x
★★★★
Self Driving Car Tensorflow 2.x implementation

Alops-mlflow-Pytorch-multistep-workflow
★★★★
simple-mlflow-multistep-workflow

This repository contains the FAST-API Learning Documentation, Code
Get Started
Delete

Self Driving Car Tensorflow 2.x implementation
Get Started
Delete

simple-mlflow-multistep-workflow
Get Started
Delete

DeepFace_FaceRecognition
★★★★
Face Unlock App
Get Started
Delete

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View Application Page

[Home](#) [Logout](#)

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These are all your projects

Projects

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5. Conclusion

To manage and store all the applications in a single place for easy and secured access.

