Saad Alvi

Mobile Engineer

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LINKEDIN | HACKERRANK

EDUCATION

COMSATS UNIVERSITY ISLAMABAD   Feb 2016 - January 2020
BACHELORS COMPUTER SCIENCE   Lahore/Pakistan

EXPERIENCE

WILD.AI | MOBILE ENGINEER   Lahore/Pakistan | June 2021 – Present

WILD.AI London

WILD AI App is a mobile application designed to help women optimize their training, nutrition, and recovery based on their life stages.

The app is built using Flutter and Dart, a popular open-source mobile application development framework, and WILD AI leverages Flutter's rich set of widgets and plugins to provide a seamless user experience across different devices and platforms.

Some of the key Flutter plugins used in the app include: - Flutter FL Charts

- Flutter DateTimePicker
- Flutter SharedPreferences
- Flutter Firebase Auth
- Apple Health Connection

Some of the key Firebase services used in the app include: - Firebase Authentication

- Firebase Cloud Messaging (FCM)
- Firebase Remote Configuration

NDESKS.COM | BACKEND DEVELOPER   Lahore/Pakistan | Feb 2020 – May 2021

The Python Framework, Django, and Django Rest Framework were utilized to construct the project, which entailed the development of a comprehensive management system for the Space. Some of the system's features include:

- Enabling the registration of new users
- Allowing the assignment of packages with varying time durations (daily, weekly, or monthly) to users
- Offering users the option to book meeting rooms
- Generating invoices for users upon booking or package assignment
- Providing the option for invoices to be sent to users via email
- Facilitating the visitor system management
- Creating a mobile app containing all user information to be used for checking in at the Space
- Establishing a community platform for users to interact with one another while at the space.

To achieve the above-mentioned functionalities, some of the requirements or technologies that I learned are:

1. Authentication and Authorization:

learned about Django's built-in authentication system and Django Rest Framework's token-based authentication.

understood how to register new users and how to manage user roles and permissions.

2. Django Models:

learned how to define models that represent tables in the database.

understood how to create relations between models such as one-to-one, one-to-many, and many-to-many.

3. Django Views and URL Routing:

how to define views that handle user requests and generate responses.

how to define URLs and route requests to the appropriate views.

4. Django Rest Framework Serializers:

how to convert Django model objects to JSON and vice versa using serializers.

how to validate and process JSON data received from requests.

5. Pagination:

how to paginate large data sets to optimize performance and improve user experience.

6. Email Sending:

how to send email notifications to users using Amazon Email Service (Amazon SES)

7. AWS Hosting:

how to deploy the Django application on an AWS server, configure the server environment, and manage server resources.

The project is still in alpha testing

SKILLS

Programming Languages	Dart, Python
Libraries/Frameworks	Flutter, Django
Tools / Platforms	VSCode, Git, Firebase
Databases	Firebase, Sqlite3

PROJECTS / OPEN-SOURCE

PORTFOLIO FLUTTER APP | Link

When building my portfolio website, I had two main objectives. Firstly, I wanted to create a platform where all of my projects could be easily accessed by simply clicking on a single link. Secondly, I wanted to use the opportunity to experiment with Flutter web and Figma and learn more about their capabilities.

To achieve these objectives, I began by establishing a clear plan for the website. I defined what I wanted to accomplish and decided on the format, number of pages, and the type of information to be included on each page. I also identified additional features and links that could be added later.

Next, I searched for design ideas and inspirations to ensure that the website would be visually appealing and user-friendly. I believe that design is crucial in any project and it was important for me to have a clear vision of the design before beginning to write any code.

After selecting a design, I familiarized myself with Figma and experimented with custom colors and text styles to create a consistent and coherent theme for the website. This enabled me to have a clear structure for the design references in the app while ensuring that the app was dynamic and could adapt to different screen sizes.

I had planned to use Firebase as the backend and hosting platform. However, I am still in the process of deciding whether to publish my web app on Github Pages or Firebase.

Although I have already published a website on Github Pages and am familiar with the process, I am also keen to explore the Firebase deploy option. I believe that Firebase could offer additional features and benefits that may not be available on Github Pages.

The decision of which platform to use for hosting and deployment is an important one, and I want to ensure that I make an informed decision that will enable me to achieve my objectives for the website.

Overall, building my portfolio website allowed me to showcase my projects and skills in a simple and accessible manner while also giving me an opportunity to learn new technologies and experiment with design ideas.

CERTIFICATIONS

- Rest API Certification - HackerRank