Subikesh P S

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SKILLS

- **Android Development**
- **Clean Architecture**
- **Python Django and REST Framework**
- **Kotlin Multiplatform**
- **Testing with JUnit, MockK and Espresso**
- **Git version control**

WORK EXPERIENCE

ZOHO CORPORATION   **Chennai**
Android Developer   **May 2022 - Present**

Worked on Zoho CRM mobile app, which is a popular customer interactions management app with a wide user base.

1. **Kotlin Multiplatform**
   - Created and implemented the base **domain and data layer of the CRM** mobile app as a Kotlin Multiplatform library with network and database services for both android, iOS and mac platforms.
   - Followed **best coding practices** and enforced separation of concerns and unidirectional data flow.
   - This SDK has cut down the development time by 40%, as any feature's backend only needs to be done once for both android and iOS platforms.
2. **Migration Tool**
   - Created a database migration tool which drafts **SQL queries from XML schema** definitions in compile time for all the platforms of an app.
   - Worked on **Gradle tasks** for automated script execution enabling seamless development process.
   - The tool helped the team easily make changes and run migrations on the database and also reduced DB maintenance and testing work by 30%.
3. **Use Case Testing**
   - Created a base setup for writing **Use Case Testing** for different user interactions in the domain/backend layer which reduced the UI testing time by 80% which helped run tests in frequent iterations.
   - This testing framework is a data-driven testing framework which uses **JUnit parameterised testing and MockK** for testing and mocking data.
   - Implemented test cases for some features in CRM mobile using an internal **Espresso** library wrapper.
4. **Other CRM Bugs and Features**
   - Worked on framing SQL criteria from the filters set by the user to filter records along with android **paging 3** to improve record loading speeds by 500 ms by supporting offline criteria resolution in mobile.

Project Trainee   **May 2021 - May 2022**

1. Worked on features and bugs on Zoho CRM android app with **MVVM architecture** improving user experience of over 15,000 daily active users.
2. **Ecommerce application**
   - Developed an e-commerce application while learning android by consuming **flipkart affiliate API**.
   - Implemented dependency injection using **Dagger 2**, API services with **Retrofit** and **room DB** for database.
   - Source: github.com/Subikesh/ECommerceApplication

PROJECTS

CODE DATABASE

Created a website and an android app to let users login and store coding problems, notes, and solution code.

- Implemented CRUD operations using **Django, Python** and created REST API using Django rest-framework.
- Created an **Android app** which consumes the hosted REST API for list, search and user login functionalities.
- Source code: github.com/Subikesh/Code-Database & github.com/Subikesh/CodeDatabase_android
- Demo: codedatabase.pythonanywhere.com/

EDUCATION

EASWARI ENGINEERING COLLEGE   **Chennai**
Bachelor of Engineering, Computer Science and Engineering   **2018 - 2022**

- 8.86 CGPA, First class with distinction

KENDRIYA VIDYALAYA, NAGERCOIL   **Nagercoil**

- Completed HSC with 94.4% score   **2016 - 2018**