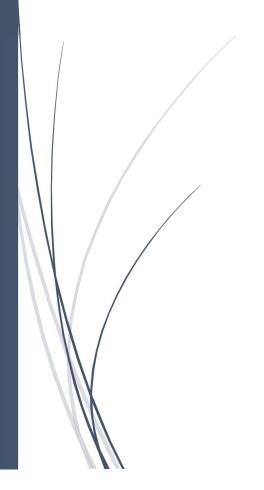6/19/2025

ASD Report

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Introduction

Throughout the semester, I worked on the Swakopmund project assignment. Under this project, I was part of the android application team so my tasks were mainly dealing with different aspects of the mobile application.

Tasks

Some of the tasks that were assigned to me were:

- Navigation
- Creating the report an issue page
- Creating the places to visit section in the tourism page
- Creating the support page
- Implementation of parts of the backend

Challenges faced

A number of challenges were faced:

GitHub Configuration Issues: One of the main issues I faced involved incorrect GitHub configuration on my end. This resulted in me adding project files into separate folders rather than updating the existing structure. This not only prevented me from pushing updates but also affected the rest of the team's ability to pull and push code.

Frontend Development Delays: Building the frontend pages of the application took more time than anticipated. This was especially true for less prioritized pages, which did not have any provided design mockups, unlike the main pages which were well-defined.

Backend Implementation Ambiguity: Implementing backend features using the MVVM (Model-View-ViewModel) architecture also posed a challenge. Although I understood and applied the pattern to the pages I worked on, there was no standardized approach communicated by the team leads at the time, which made integration difficult.

Solutions

Solution I – fixing GitHub issues:

After the incident that happened, I provided a solution to manually add the files in their rightful folders and update the code in their files manually. However, this was a temporary solution as it was monotonous. The permanent solution I settled on was to remove the extra folders that I initially added so that there will be no confusion. After doing this, the repository was functioning as it should.

Solution II – designing Missing Pages

Since there were still some pages that did not have designs, I took it upon myself to work on them so that they are not at least empty. This mainly applied for the support page and the report an issue page which did not have designs.

Solution III – backend integration

The pages that I worked on that required implementation of the backend, such as the report an issue page, were already completed so I just managed to structure it under the right project folders as specificized by the team leads.

Conclusion

Being part of the Android development team for the Swakopmund project was both a challenging and rewarding experience. I developed a deeper understanding of project collaboration, version control, mobile UI/UX considerations, and backend integration. Despite the hurdles faced, I was able to contribute meaningfully to the project through initiative, adaptability, and problem-solving. This project not only strengthened my technical skills but also emphasized the importance of team coordination and proactive communication in software development.