Brief Project Report

1. **Implementation**

    1.1. Requirement gathering

    Most of the information was provided in the assignment document. And links to the resources were also enlisted in the same document. This gave an overall idea of the project.

    1.2. Design

    The design was also provided as screenshots as well as a figma link. And the architectural design part was straight forward.

    1.3. Development

    - Set up the development environment.
    - Download all the necessary packages.
    - Set up an emulator as well as physical devices.
    - Implement the front end design of the app and the logic to make login and logout work.

    1.4. Integration

    - Integrating Google Single Sign-On with the app.
    - After successful sign in, fetching the necessary details on the dashboard page.

    1.5. Testing

    Testing devices used

    - Pixel 7 pro (Android Emulator)
    - Redmi 8 A Dual (Physical)
    - iphone SE (Physical)
    - ipad 8 (Physical)

    For visual and design testing, Expo Go was used primarily. But for testing Google SSO, the origin of the request made from Expo Go is not considered authentic. So, a development build was made for android and installed on Redmi 8A Dual. A successful sign in and timely data fetching on the dashboard page was achieved.

2. **Challenges and Resolution**

   1. **Design**

      Exact design provided in the figma was difficult to implement. And the provided logo did not meet the design requirement. A work around had to be done to accommodate those flaws.

   2. **Development**

      Integrating "Nativewind" took more time than it should due to its unusual behavior of watching files. Took a lot of searching on Stack Overflow, Github Issues. It was resolved by changing the content property inside tailwind.config.js file.

   3. **Integration with Google SSO**

      It did not work with Expo Go. So a development build had to be made. During testing, after successful sign, the web redirected to an unmatched route. This issue was enlisted in Github Issues, the redirection was made to a route with a specific name. So a page was created with that specific name and redirected from that page to the required page.

   4. **Testing**

      Integration testing for iOS could not be done. It is required to be involved in an organization or create an apple developer account with a purchase.