**Sprint-4 Requirements**

**<Project Code>:<Project Name>**

**<team member names & ids>**

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| --- | --- |
| **Student ID** | **Name** |
| **24100199** | **Umer Inayat** |
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| --- | --- | --- |
| **Content** | **Totals** | **Obtained** |
| Properly tested working system | 20 | 17 |
| Deployed on an online hosting platform. | 10 | 10 |
| Code with readable comments | 10 | 5 |
| 3-4 minutes video | 10 | 10 |
| Test case execution report. | 10 | 10 |
| Updated Readme file | 10 | 5 |
| Update project schedule on GitHub | 10 | 10 |
| Size of the work completed | 20 | 15 |
| Updated architecture and data model penalty | -10 | - |
| GitHub folder structure penalty | -15 | - |
| Late submission penalty | -20 | - |
| **Grand Total** | **100** | **82** |
| **General Comments/Individual Grading: Gemini Itinerary Generation, Data Scrapping for everything** | | |

**# Manzil - Sprint 4 (Final Sprint)**

**## 📌 Project Overview**

**\*\*Manzil\*\* is a full-fledged \*\*React Native Expo\*\* application that helps tourists with:**

**- 🧠 \*\*AI-Powered Trip Planning\*\***

**- 🏨 \*\*Hotel Reservations\*\***

**- 🚗 \*\*Car Rental Services\*\***

**- 🗺️ \*\*Tourist Spot Reviews\*\***

**- 🍴 \*\*Restaurant Discovery & Ratings\*\***

**- 📍 \*\*Navigation Integration\*\***

**The app offers an intuitive experience where users can plan their journey, book services, and explore cities—\*\*all in one place\*\*.**

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**## ✅ Sprint 4 - Final Deliverables**

**This final sprint focused on polishing, feature-completion, and packaging of the product. Below are the major highlights:**

**### 🚗 1. \*\*Complete Backend & Frontend for Car Rentals\*\***

**- Designed a schema for \*\*Car Rental Companies\*\* and their associated \*\*cars\*\*.**

**- Built \*\*endpoints for car listings\*\*, availability check, and reservations.**

**- Rendered car rentals dynamically inside the app based on city/location.**

**- Users can now \*\*view, navigate to, and reserve cars\*\* from available rental companies.**

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**### 🎨 2. \*\*Enhanced UI/UX\*\***

**- Improved \*\*component layout\*\* across all screens.**

**- Polished \*\*buttons\*\*, \*\*color schemes\*\*, and \*\*spacing\*\* for a more \*\*aesthetic experience\*\*.**

**- Enhanced \*\*responsiveness\*\* and \*\*alignment\*\* across various screen sizes.**

**- Dynamic rendering for elements like restaurant and car cards with real-time interactivity.**

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**### 📦 3. \*\*Built Android APK\*\***

**- Resolved multiple \*\*dependency mismatches\*\* and compatibility issues.**

**- Finalized and tested the production-ready build.**

**- Created an \*\*APK\*\* for offline installation and testing.**

**- APK behaves identically to the Expo Go version.**

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**### 🧪 4. \*\*Testing with Jest\*\***

**- Introduced \*\*unit testing\*\* using \*\*Jest\*\* and \*\*React Test Renderer\*\*.**

**- Wrote and executed tests for critical components like:**

**- The index screen**

**- Navigation functionality**

**- Component render verifications**

**- Snapshot testing ensures UI consistency.**

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**### 📽️ 5. \*\*Final Demo & Documentation\*\***

**- Recorded a detailed \*\*demo video\*\* to walk through features.**

**- Finalized documentation including:**

**- Component breakdown**

**- API integration**

**- Data flow diagrams**

**- Usage instructions**

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**## 🚀 How to Run the Application Locally**

**### \*\*📱 Mobile App (Tourist Side)\*\***

**1. Go to the root directory**

**2. Run:**

**```sh**

**npm install**

**npm start**