**Requirement Gathering and Analysis Phase**

**Solution Requirements (Functional & Non-functional)**

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| --- | --- |
| Date | 11-07-2024 |
| Team ID | SWTID1720167264c |
| Project Name | Cab Booking App |
| Maximum Marks | 2 |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Gmail |
| FR-2 | User Authentication | Confirmation via Email  Confirmation via OTP  Login with Google account  Forgot password functionality |
| FR-3 | Ride Booking | Set pickup and drop-off locations  Choose cab type (standard, premium, etc.)  View estimated fare and arrival time  Confirm booking |
| FR-4 | Real-time Tracking | Track assigned cab's location  View estimated time of arrival |
| FR-5 | Payment Processing | In-app payment options (credit card, digital wallets) Cash payment option  Generate and view receipts |
| FR-6 | User Ratings and Feedback | Rate driver after ride completion  Provide feedback on ride experience  View personal rating as a passenger |
| FR-7 | Ride History | View past ride details  Download ride receipts  Reorder frequent rides |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The app should have an intuitive, user-friendly interface accessible to users of all ages. It should be easy to navigate and book a ride within 3 taps. |
| NFR-2 | **Security** | Implement robust encryption for user data and payment information. Use secure authentication methods and protect against common vulnerabilities. |
| NFR-3 | **Reliability** | The app should have 99.9% uptime. It should handle network interruptions gracefully and sync data when connection is restored. |
| NFR-4 | **Performance** | The app should load within 3 seconds on average internet connections. Real-time tracking should update every 5 seconds. |
| NFR-5 | **Availability** | The system should be available 24/7, with planned maintenance windows communicated in advance. |
| NFR-6 | **Scalability** | The application should be able to handle a minimum of 10,000 concurrent users without significant performance degradation. |