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10. **Introduction**

\*\*To be done\*\*

* 1. **Purpose**

\*\*To be done\*\*

* 1. **Scope**

\*\*To be done\*\*

1. **General Description**

\*\*To be done\*\*

* 1. **Product Functions**

\*\*To be done\*\*

* 1. **User Characteristics**

\*\*To be done\*\*

1. **Specific Requirements**

The requirements of this mobile application outlines the needs of the users who will use this app. It compiles all the below-listed functional and non-functional requirements and becomes the base reference document for our entire development team.

These requirements list out the technical specifications, and the list of assets(hardware, Third-party softwares) connected with the app.

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* 1. **Functional Requirements**

Functional requirements specify a function that this application must be able to perform. It can be documented in various ways. It may be Technical details, Data processing and Other specific functionality.

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| **Requirement ID** | **Requirement Statement** | **MUST/SHOULD/COULD/WOULD** | **Comments** |
| FR1 | The application shall have a login screen as a home page. | MUST | The system shall verify the credentials with the database. |
| FR2 | The application shall have a registration page, where the user can enter the details. | MUST | The system shall save the data within the database. |
| FR3 | The Users shall be able to edit/update their profile details. | COULD | The system shall update the profile details of the user in the database. |
| FR4 | The application allows the admin/user to view the list of available rooms. | MUST | The system shall fetch the data of rooms available from the database. |
| FR5 | Users can book a room based on purpose of booking, capacity, hardware/ software requirements. | MUST | The system shall book a room according to the user requirement. |
| FR6 | Users can see their booked rooms, date and duration of exam or meeting. | MUST | The system shall fetch the booked rooms by the user from the database. |
| FR7 | Users can cancel the rooms that are already booked by them. | MUST | The system shall update the room details once the room is cancelled by the booked user. |
| FR8 | The User/Admin shall have the option of Log out. | MUST | The system shall log out the user from the application. |
| FR9 | The application allows the admin to add the rooms, hardware/software equipment. | MUST | The system shall add rooms, hardware/software equipment in the database. |
| FR10 | The application allows the admin to cancel the booked rooms. | MUST | The system shall cancel room booking and update it’s details in the database. |
| FR11 | Admin can edit/update the room details (Room number, Room capacity, Hardware equipment, Software equipment). | MUST | The system shall update the room details in the database. |
| FR12 | Admin can view the booked rooms. | SHOULD | The system shall fetch the details of all booked rooms from the database. |
| FR13 | Admin can view the list of all the rooms in this application (both available & booked rooms). | SHOULD | The system shall fetch the details of all rooms from the database. |
| FR14 | Allow admin to delete the rooms from the app. | MUST | The system shall delete the room details from the database. |
| FR15 | Users can select start date and end date for room booking. | MUST | The system shall display the calendar which allows the user to select dates. |
| FR16 | Users can select start time and end time. | MUST | The system shall display the dropdown list which allows the user to select the timings. |
| FR17 | Duration of the booking will be calculated automatically. | MUST | The system shall calculate the duration of the room booked; based on start time, end time, start date, end date values that are selected by the user. |
| FR18 | Users must be able to see the status of the room booked by them. | MUST | The system shall display the status of the booking room as confirmed, only if no other user has booked that room in the same slot prior to the current user.  If the first user booked a room in a particular time slot, and the second user wants to book the room within the same time slot, it should display the booking status as waiting. Once the first user cancels the booked room, then it will be allocated to the second user and their booking status will be changed to confirmed. |
| FR19 | Users can request for the extra equipment either for meeting or an exam. | SHOULD | The system shall allow users to enter the details of equipment needed by them in their booked room. |

**3.2 Non-Functional Requirements**

\*\*To be done\*\*

1. **Analysis Models**

\*\*To be done\*\*

**Use case Diagram**

\*\*\*To be Done\*\*\*

**Class Diagram**

\*\*\*To be Done\*\*\*

* 1. **Use case Diagram**

\*\*\*To be Done\*\*\*

* 1. **Class Diagram**

\*\*\*To be Done\*\*\*

1. **Screens**

**Screen flow diagram**

\*\*To be done\*\*

**Screen Design**

\*\*To be done\*\*

1. **Database (ERD)**

\*\*To be done\*\*

**ERD Diagram**

\*\*\*To be Done\*\*\*

* 1. **Database Schema**

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| \*\*\*To be Done\*\*\* |

1. **Web Calls**

\*\*\*To be Done\*\*\*

**Login**

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1. **References**

\*\*\*To be Done\*\*\*

1. **Glossary**

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