Room Allocation Application

# Room Allocation Application

Design and implement a system that manages and organizes rooms in Kalinga Social Centre. It enables users to store into and search for user information and allocating rooms to users.

* Promo vide and carousel of Kalinga campus & Social centre
* The home page contains the following links
  + Add a new user
  + Add rooms
  + Allocate room to user

# System Features

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| **Use Case #1** | **Add an user** |
| Trigger | User clicks on “Add an user” link on the home page |
| Pre-Conditions | - |
| Post-Conditions | The complete information about the user is stored in the application database |
| UI Screen Details | The input form contains the following fields   |  |  |  | | --- | --- | --- | | MID | Alphanumeric |  | | Name | Text value |  | | Track Name | Text Value |  | | Profile picture | image |  | |
| Main Flow | The user provides the required details in the form and Clicks “Save” button. On successfully saving the user details, user is forwarded to the home page along with the message “User details have been saved successfully” |
| Data Validations | * Input data has to be validated for numeric and image data fields. * All fields are mandatory |
| Business Rules | None |
| Exception Flows | * In case of any failure in Data Validation or Business Rules, user should be brought back to the screen along with the error message “The value provided for the field …. Is incorrect or incomplete” |
| Alternate Flows | * When the user selects “Cancel” button, user should be taken back to the home page |

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| **Use Case #1** | **Add a room** |
| Trigger | User clicks on “Add a room” link on the home page |
| Pre-Conditions | - |
| Post-Conditions | The complete information about the room is stored in the application database |
| UI Screen Details | The input form contains the following fields   |  |  |  | | --- | --- | --- | | RID | Alphanumeric |  | | Block Name | Text Value |  | | Floor Number | Numeric |  | |
| Main Flow | The user provides the required details in the form and Clicks “Save” button. On successfully saving the room details, user is forwarded to the home page along with the message “Room details have been saved successfully” |
| Data Validations | * Input data has to be validated for numeric fields. * All fields are mandatory |
| Business Rules | None |
| Exception Flows | * In case of any failure in Data Validation or Business Rules, user should be brought back to the screen along with the error message “The value provided for the field …. Is incorrect or incomplete” |
| Alternate Flows | * When the user selects “Cancel” button, user should be taken back to the home page |

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| **Use Case #2** | **Allocate Rooms** |
| Trigger | User clicks on “Allocate rooms ” link on the home page |
| Pre-Conditions | User and room details are in the database |
| Post-Conditions | Details of allocated rooms with selected user are stored in database |
| UI Screen Details | * ‘**User list**’ table needs to be displayed. This displays the list of **all** the users available in the database. Each user display will have a button “allocate room” beside it. * ‘**Allocate Room**’ button needs to list the available rooms and user can select any one of the rooms. Then it has to display allocated rooms with the user list.   + The cancel button, on click, will reset this form |
| Main Flow | When the page is loaded the ‘User List’ form and the ‘Room List table are displayed one below the other.  The ‘Allocate room’ table is initially loaded with details in Database. Once the data is entered through the ‘Allocate room’ button and stored successfully, report with allocated room details with user list also could be displayed |
| Data Validations | * Input data has to be validated for numeric fields. * All fields are mandatory |
| Business Rules | * ID should be unique in the system |
| Exception Flows | In case of any failure in Data Validation or Business Rules, user should be brought back to the same screen along with a relevant error message |
| Alternate Flows | * When the user selects “Close” button, user should be taken back to the home page |