

Members: Faiyaz Aziz, Drayton Barrand, Paul Bodinizzo, Daniel Gauntlett
Pledge: I pledge my honor that I have abided by the Stevens Honor System

Room Reservation Software

Brief description: Software to book room reservations for various organization meetings and events for college campuses.

GitHub Repo: <https://github.com/Daniel-Gauntlett/rankine-cs546-final>

Core Features:

- Allows reserving rooms from the database for arbitrary timeslots via creating event requests
- Accounts can have three levels of permissions:
 - Default permissions for every new account: Users can create events, see public events or private events they created, and RSVP for public events
 - Approval permissions are granted by administrator accounts. Users with approval permissions can, in addition to default permissions, see private events they did not make, and approve or deny events.
 - Administrator permissions are the default for a core account existing at the start. If multiple administrators (or the core account only, if it's the only one) approve, other accounts can be granted administrator privileges. Administrators can edit the room database (creating, editing, and deleting rooms) and other users' permissions. They can revoke approval permissions if necessary, but revoking administrator privileges is only doable by the core account.
- Event requests can be approved or denied by accounts with approval permissions.
- Notifies users if their request is approved or denied.
- Events can be edited by the creator at the cost of approval going back to Pending
- Existing approved and pending bookings for rooms can be viewed by logged-in users.
- Search for rooms to book based on availability, capacity, and room features.
- Automatically deny pending requests that overlap in room and timeslot when one event is approved (with confirmation alert to admin)
- Users can RSVP approved public events they intend to go to by room reservation.
- Attendees can be tracked by the event creator during and after the event only. If attendees RSVPed ahead of time, they appear on the attendee registration page, allowing them to be registered easier.
- Only logged-in users can view public events and the room database.

Extra Features:

- Events can be public or private (private events can only be seen by the creator, accounts with approval permission, and administrators)
- Multiple rooms in the same building can be reserved at one time
- Recommends room given description of event

- Displaying pictures for each room in the list alongside the room features
- Sidebar campus map for room reservations
- Community polls to suggest events
- If attendee number exceeds the total capacity of reserved rooms by a notable margin, issue an alert to accounts with approval and administrator accounts.
- Badge system to encourage event attendance for students by rewarding them with in-site status and visuals.
- Event creators can upload images associated with their events that display on RSVP pages
- Users can create organizations (with approval) which include other users
 - Users can register themselves as members of organizations