Jacob Pilcicki System Final Report

Executive Summary

The “On-Call” messaging system is designed to allow for standardization of student and advisor contact in college dorms. The system features groups, where advisors and students can easily see who they are assigned to and allows advisors to toggle availability.

What makes your system special?

The system is a simple solution to the lack of an easy and standardized communication network for resident advisors and students

Diagram

Description automatically generated

What makes your system unique?

There are no competitors which are made specifically for universities

Toggle Status Use Case Description (Referred to as set status in diagram)

|  |  |  |
| --- | --- | --- |
| **Use Case:** | Toggle Status | |
| **Use Case ID:** | toggleStatus | |
| **Description:** | Allows Resident Advisors to toggle their status between offline and online (On-Call during their hours) | |
| **Primary actor(s):** | Resident Advisor User | |
| **Stakeholders:** | User  Other Resident Advisors  Dormitory Students  Campus Security  School Administration | |
| **Trigger:** | User clicks the “On-Call” Toggle switch on their GUI | |
| **Preconditions:** | User is logged in  User is a Resident Advisor | |
| **Postconditions:** | User profile shows they are on-call  Users name appearing in other instances will have a green dot next to it | |
| **Exceptions:** |  | |
| **Normal flow of events:** | Actor   1. Clicks on toggle switch | System   1. Sets Boolean value “onCall” stored for user to 1 for on-call 2. Displays user status as on-call on their profile 3. Displays green dot next to user |

Create Group Use Case Description

|  |  |  |
| --- | --- | --- |
| **Use Case:** | Create Group | |
| **Use Case ID:** | createGroup | |
| **Description:** | A Residential Advisor user can create a group and give it a description | |
| **Primary actor(s):** | RA user | |
| **Stakeholders:** | Resident Advisors  Dormitory Students | |
| **Trigger:** | An RA user clicks on a create group button | |
| **Preconditions:** | The user must be an RA User | |
| **Postconditions:** | A new empty group is created with a description | |
| **Exceptions:** |  | |
| **Normal flow of events:** | Actor   1. Clicks create group button 2. User fills out name and description of group 3. User Submits form | System   1. Brings up a group creation form with a group name and description field 2. System creates new group object using form as values |

Idea to Market

Diagram

Description automatically generatedThe system could be a rework of the already existing RU Mobile chat app or easily created from scratch

How does data flow from the user back and forth?

The simplicity of the functions provided means the system will be easy to learn and use.

Toggle Status

Box and whisker chart

Description automatically generated

Create Group

Chart, diagram, box and whisker chart

Description automatically generated

How do you make money?

The system could be marketed and sold to universities across the world. There is also the possibility of collecting data for sale or analysis.

Summary and Lessons Learned

I had a pretty good grasp on the scope and structure of my system from the beginning of the course. Deciding how/if the system would connect to a database presented a challenge. There were also some inconsistencies and intentional changes throughout iterations of the project that I had to address.