

User Manual

Worcester Polytechnic Institute
Computer Science Department
CS3733 Software Engineering

Team D: Dragonfly Dragons

Team Members

Michael Abadjiev
Shreeja Bhattacharjee
Yufei Gao
Mingquan Liu
Treksh Marwaha
Benjamin Newmark
Kenneth Quartuccio
David Swenarton
Daniel Wivagg

Roles

Product Owner
Project Manager
Documentation Analyst
Co-Lead Software Engineer
Software Engineer
Assistant Lead Software Engineer
Test Engineer
Co-Lead Software Engineer
Software Engineer

Wilson Wong
Chris Meyers

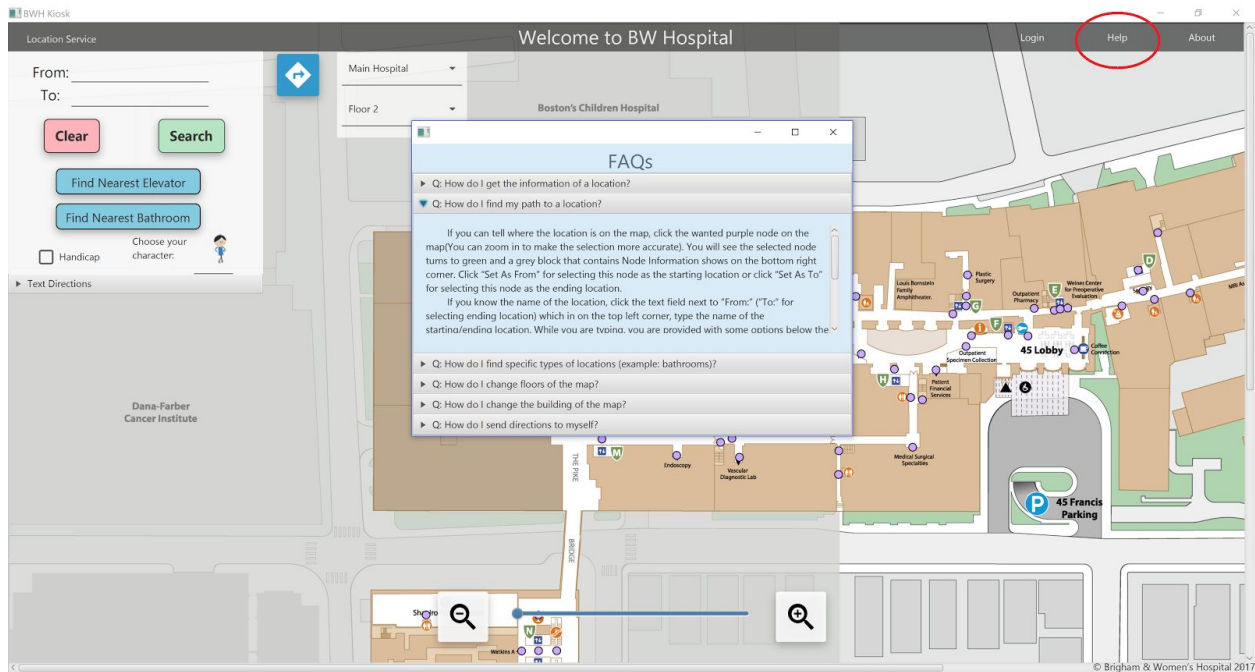
Professor
Team Coach

Table of contents

| | |
|--|----------|
| Introduction | 3 |
| User Features | 4 |
| Path-finding | 4 |
| Display Key Locations | 7 |
| Finding the Nearest Restroom/Elevator | 8 |
| Employee Features | 9 |
| Creating Service Requests | 9 |
| Handle Your Service Requests | 9 |
| Responding to and Updating Requests(administrative use only) | 10 |
| The Map Editor (administrative use only) | 11 |
| Employee Manager (administrative use only) | 12 |

Introduction

This is the user manual for the pathfinding application, map builder, and service request components with our representatives at the hospital in mind. It includes screen captures of all features along with instructions for how to use them. At any point during the operation of the application, there is also a list of FAQ's that can be accessed by clicking the "Help" button in the top right corner of the application.



User Features

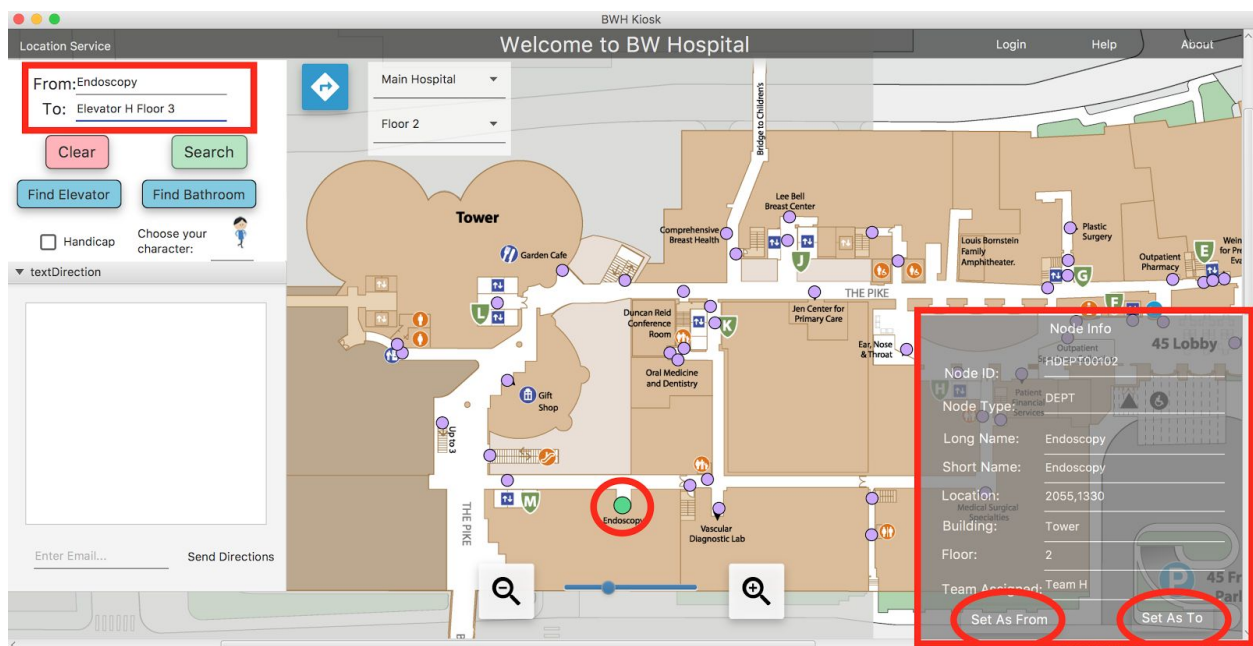
Path-finding

Step 1: Select your starting and ending locations.

You can either:

- Get your directions by clicking nodes on the map
- Get your directions using the suggested locations when you start typing

a: If you can see your desired location on the map, click the purple node that represents it (You can zoom in to make the selection easier). You will see the selected node turn green, and a grey block containing Node Information will appear in the bottom right corner. Click “Set As From” or “Set As To” to set the selected node as the start or end location.



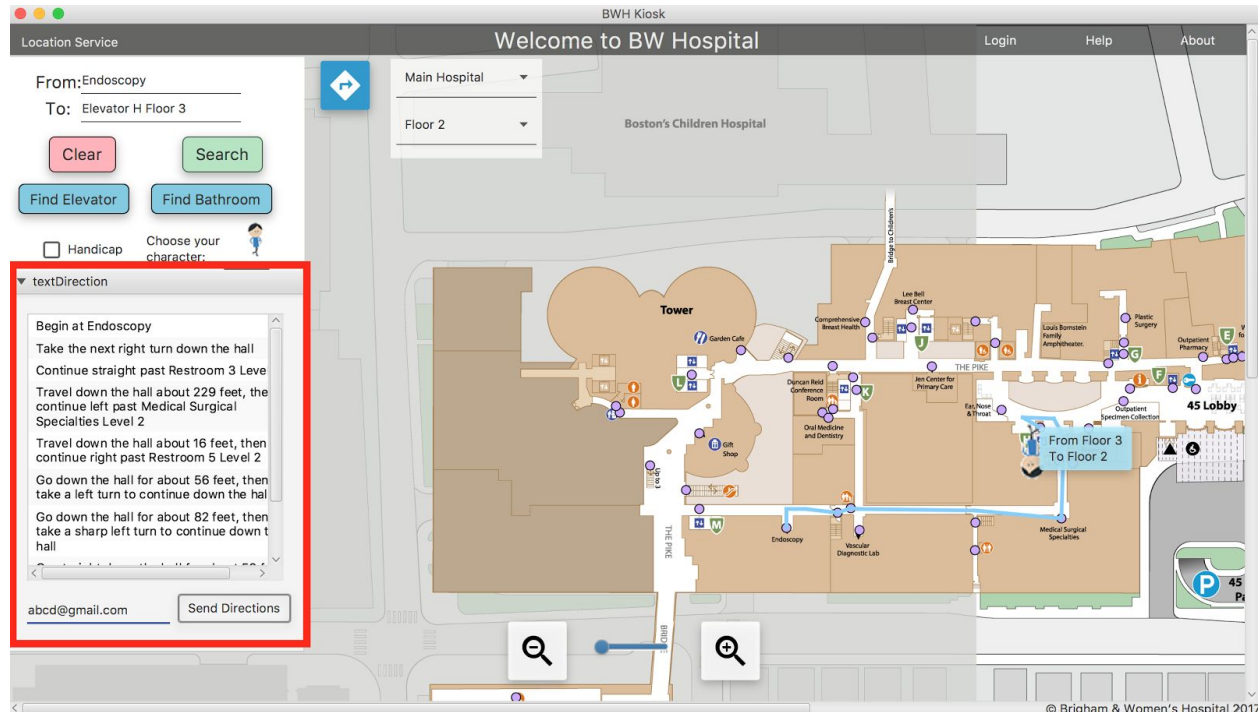
b: If you know the name of the location, click the text field next to “From:” (“To:” for selecting ending location) in the top left corner, and type the name of the starting/ending location. While you are typing, you will see a drop down menu with suggested locations, which you can select if you see your desired location.



Step 2: Now press the green “Search” button. If you prefer a handicapped-accessible route, click the “Handicap” check box before searching. A light blue path will display on the map, and your character will walk along the path. You can change your character by selecting one from the drop down menu next to the “Handicap” check box. If your path crosses between multiple floors, you will see a blue button on the elevator or staircase node, you can switch between the two floors by clicking this blue button.

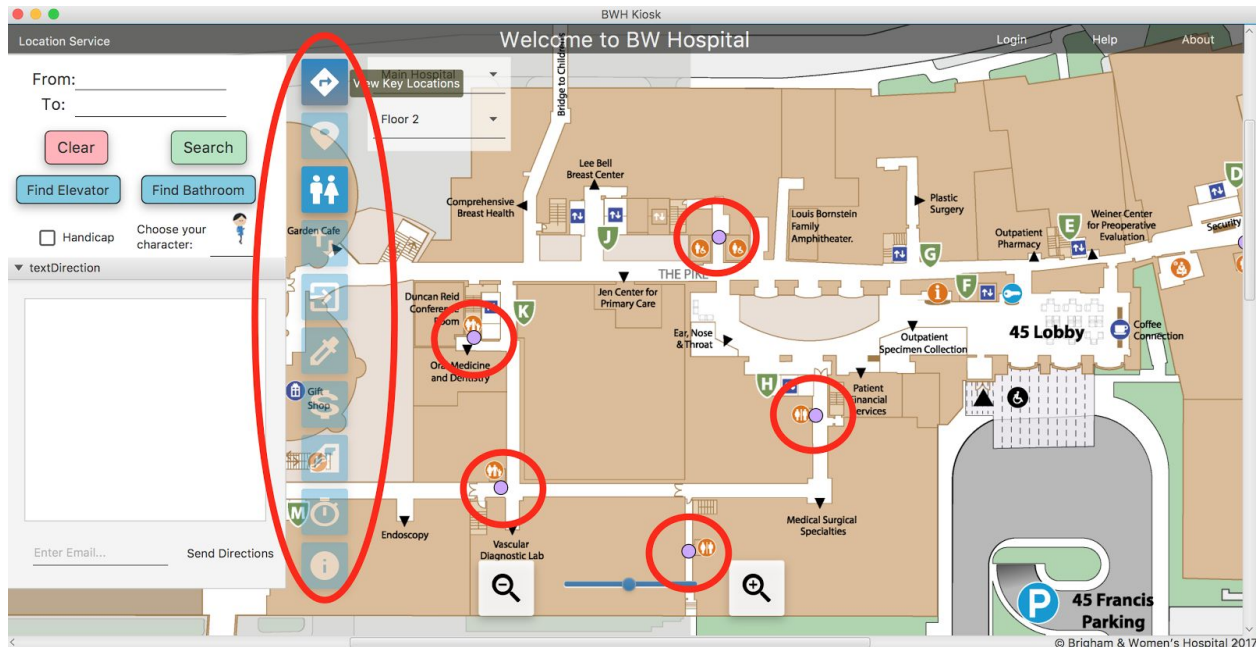


Step 3: The text directions of your path will be shown on the top left corner. If you want to receive an email of your directions, enter your email address in the text field and click the “Email Directions” button. You will receive an email with the text directions of your path shortly.



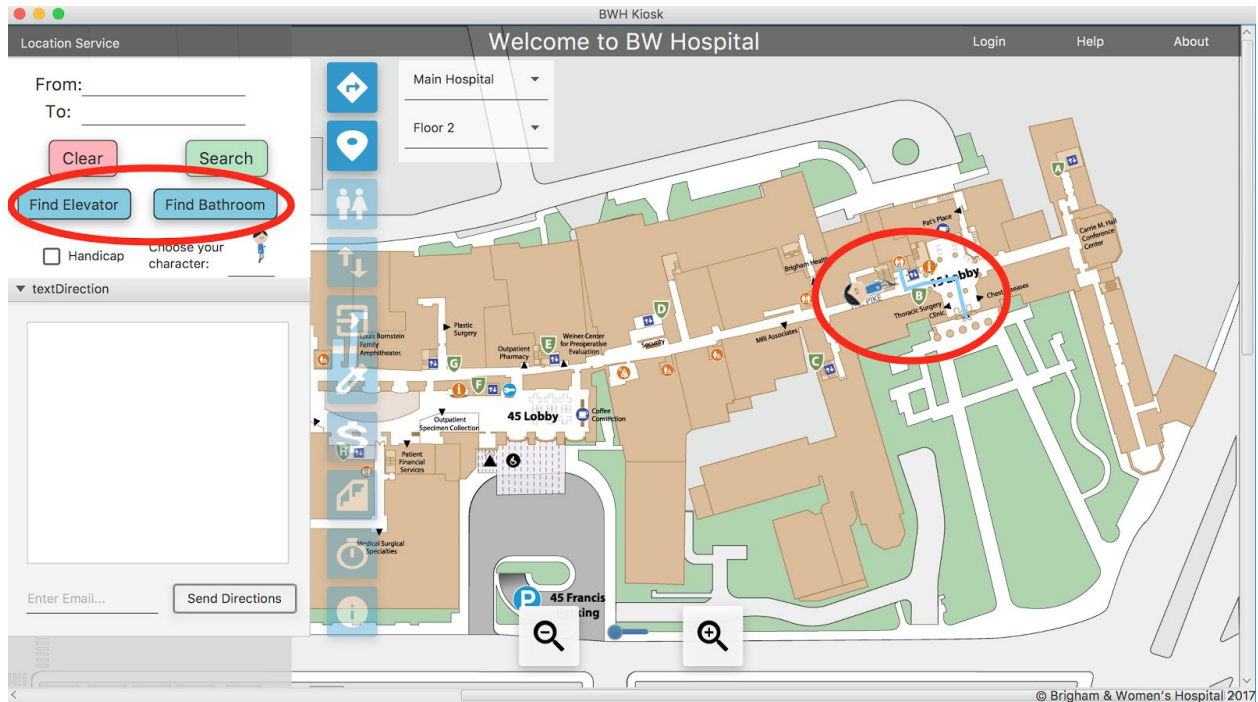
Display Key Locations

Click the blue button on the top left corner, then click the the desired location type icon. The nodes representing that location type will appear on the screen.



Finding the Nearest Restroom/Elevator

Click the blue “Find Elevator” or “Find Bathroom” button on the left side. You will see a path that guides you from your current location to the nearest elevator or restroom.

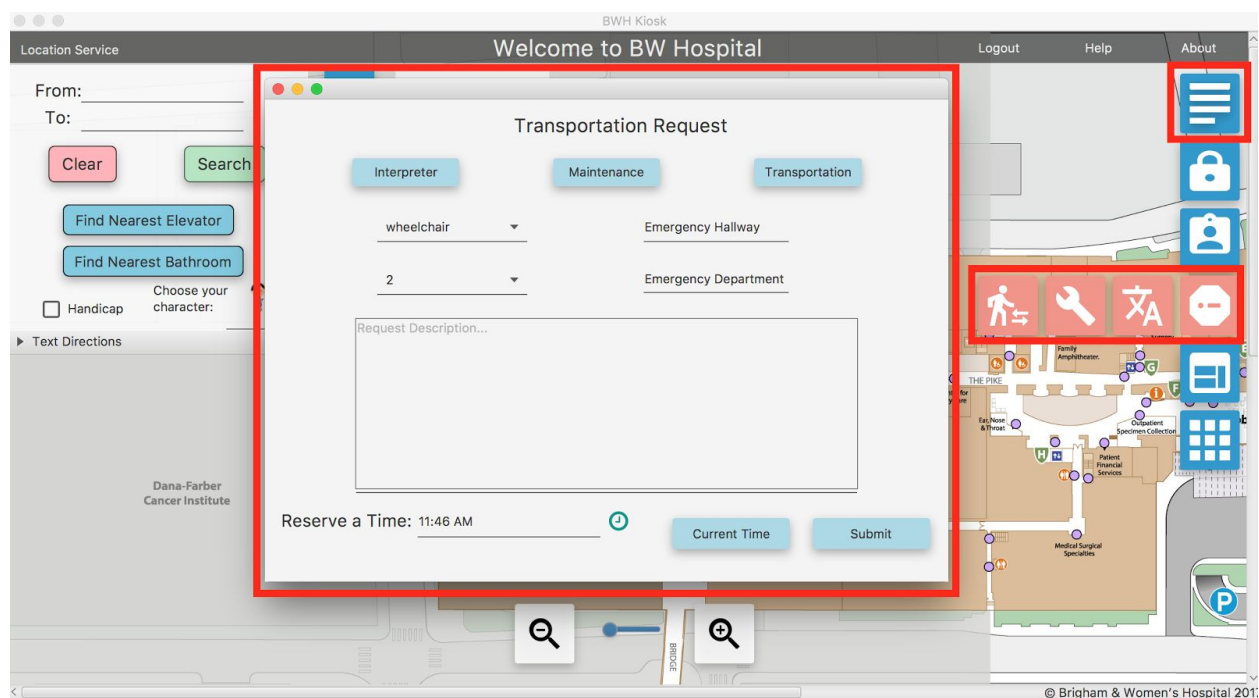


Employee Features

Step 1: Log in by clicking the “Login” button in the top right corner.

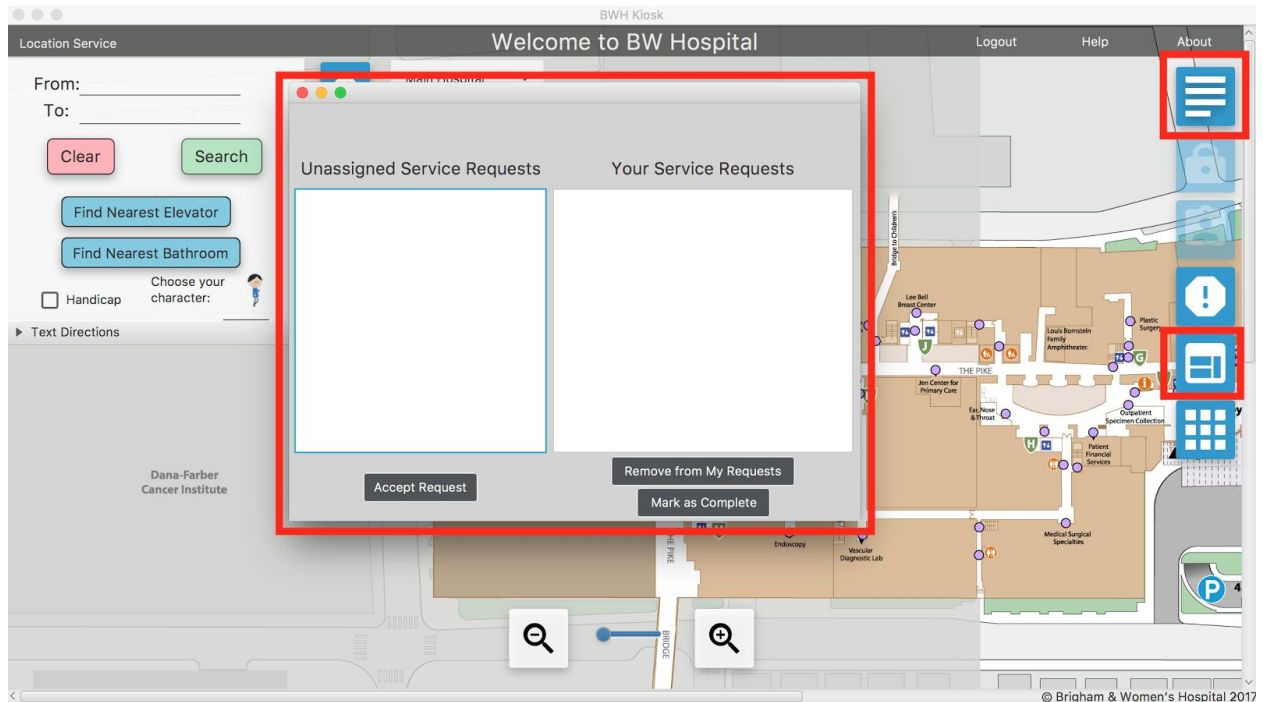
Creating Service Requests

The service request window can shown by clicking on the buttons shown on the image. The Interpreter, Maintenance and Transportation buttons can be used to change the type of request and lastly the Submit button can be clicked to submit the request.



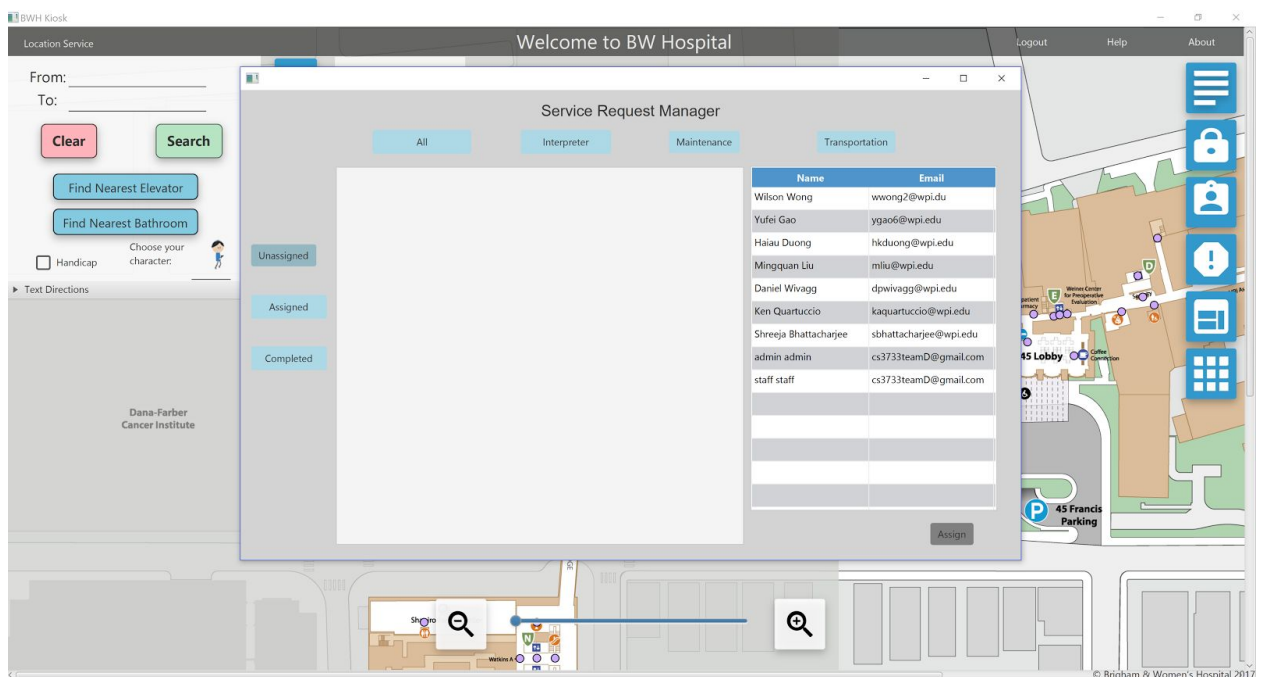
Handle Your Service Requests

Service requests can be accepted, unassigned or marked as completed by first selecting the request and then pressing the appropriate button.



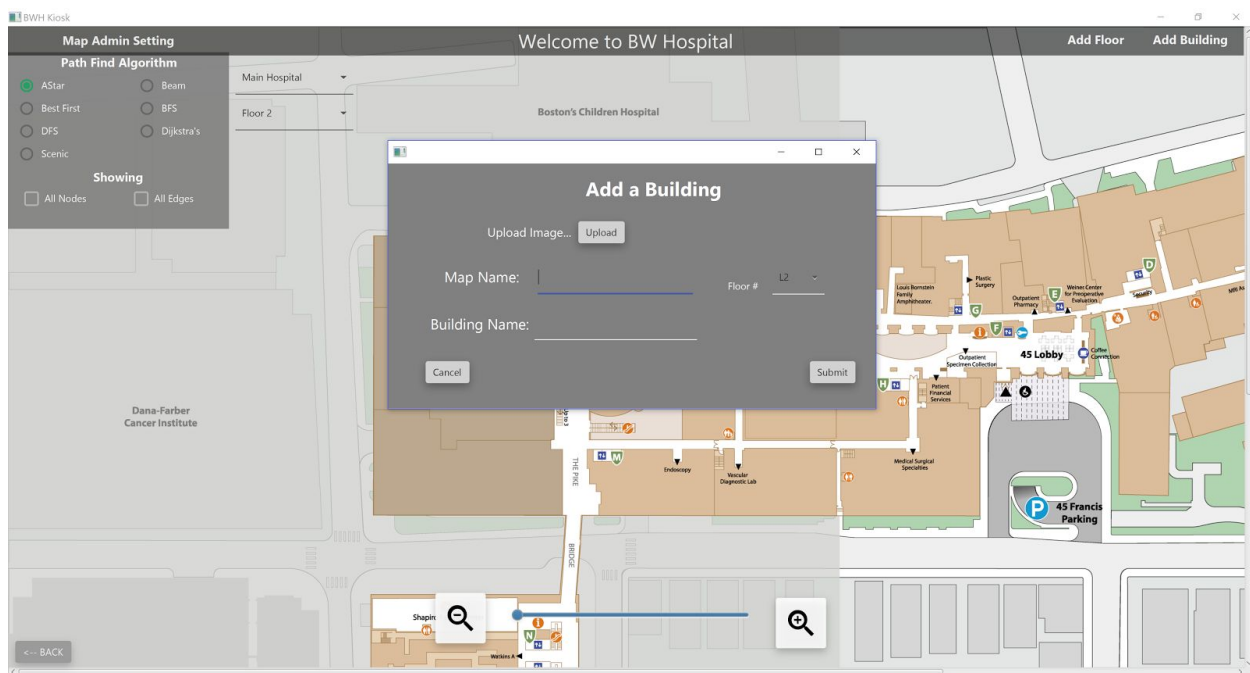
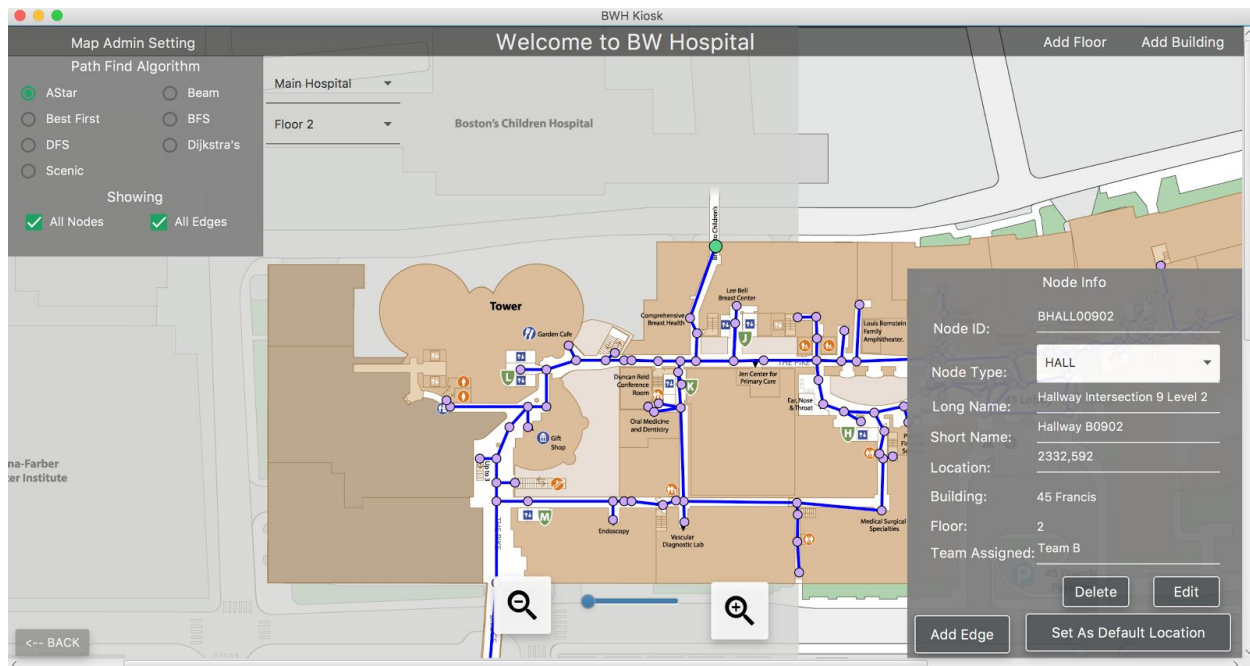
Responding to and Updating Requests(administrative use only)

Service request can be managed by selecting the appropriate tab in the service request manager, clicking on the needed service request and then clicking the Assign or Complete buttons.



The Map Editor (administrative use only)

The map editor provides hospital administrators with an intuitive tool for adding nodes, adding edges between nodes, adding buildings, and selecting the pathfinding algorithm to use. Users can click and drag on shown nodes to edit their location, as well as enter any changed information in the “node info” box in the bottom right corner. Buildings and floors are added by clicking the buttons in the top right corner and then filling out the popup box.



Employee Manager (administrative use only)

To edit a employee click on the employee you want to edit then change the needed information and click update employee.

To add a new employee fill out the needed information and then click the Add employee button.

The screenshot shows the 'Employee Manager' window overlaid on a hospital map. The window contains a table of existing employees and a form to add a new one.

| Username | Last name | First name | Service type | Admin? | Email |
|------------|------------|------------|----------------|--------|------------------------|
| wwong2 | Wong | Wilson | interpreter | Yes | wwong2@wpi.edu |
| ygao6 | Gao | Yufei | interpreter | Yes | ygao6@wpi.edu |
| hkduong | Duong | Haiau | transportat... | Yes | hkduong@wpi.edu |
| mliu | Liu | Mingquan | maintenance | Yes | mliu@wpi.edu |
| dpwivagg | Wivagg | Daniel | maintenance | Yes | dpwivagg@wpi.edu |
| kaquart... | Quartuc... | Ken | maintenance | Yes | kaquartuccio@wpi.edu |
| sbhatta... | Bhattac... | Shreeja | transportat... | No | sbhattacharjee@wpi.edu |
| admin | admin | admin | none | Yes | cs3733teamD@gmail.com |

Below the table is a form to 'Add a new employee'.

Form fields:

- Username: _____
- Email: _____
- First name: _____
- Password: _____
- Last name: _____
- Re-enter password: _____

Service type options (radio buttons):

- ☐ Interpreter
- ☐ Transport
- ☐ Maintenance

Admin? checkbox: ☐ Admin?

Buttons: Add employee, Remove empl...