

IS 590 Assignment 6 Report

Team Member Contribution

Roger Ho:

User Interface -- Main.py

Vera Vasileva:

Data Importation of Nodes & Edges & Map.png for reference -- Navigation.py's data part

Zijun Cai:

Map & Navigation & List buildings , ReadMe, Report -- Navigation.py's other part

Examples:

1. List Buildings Lexicographically

```
===== Welcome to NaviGrapher =====  
----- Please Enter the "number" of choices below to use NaviGrapher -----  
(1). List All Buildings  
(2). Navigate!  
(3). Exit/Quit
```

Enter your Choice: **1**

NAME	MAIL CODE
Altgeld Hall	382
Animal Sciences Lab	630
Armory	528
Davenport Hall	151
Edward R. Madigan Lab	51
English Building	718
Foreign Language Building	164
Gregory Hall	462
Henry Administration Building	368
Illini Union	384
Illini Union BookStore	312
Institute For Genomic Biology	195
Lincoln Hall	456
Main Library	522
Medical Sciences Building	714
Native American House	139
Roger Adams Lab	712
School of Information Sciences	493
Smith Memorial Hall (Music)	56
UI Ice Arena	525

2. Navigation

(1). Normal Navigation

```
===== Welcome to NaviGrapher =====
----- Please Enter the "number" of choices below to use NaviGrapher -----
(1). List All Buildings
(2). Navigate!
(3). Exit/Quit
```

Enter your Choice: 2

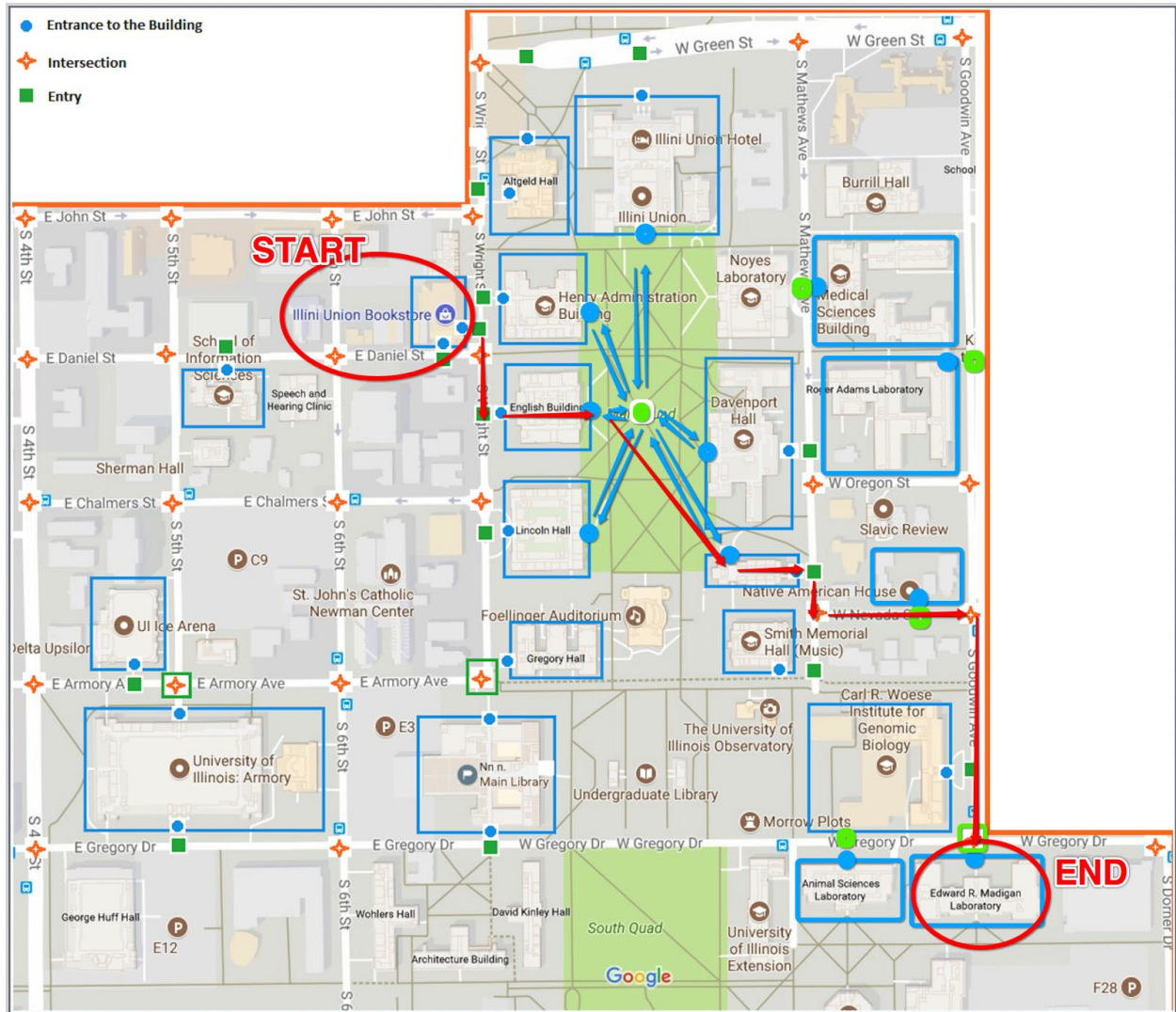
```
===== Navigation Mode =====
Choose the corresponding NUMBER of TWO buildings where you would like to navigate between.
You will be asked to choose the number of the building two times.
First time will be the starting building of where you want to start.
Second will be the building of the destination you want to arrive at.
===== Choice : (Buildings, Address, Mailcode) =====

1: ('School of Information Sciences', '501 E. Daniel St.', 493)
2: ('Illini Union BookStore', '807 S. Wright St.', 312)
3: ('Altgeld Hall', '1409 W. Green St.', 382)
4: ('Illini Union', '1401 W. Green St.', 384)
5: ('Henry Administration Building', '506 S. Wright St.', 368)
6: ('English Building', '608 S. Wright St.', 718)
7: ('Lincoln Hall', '702 S. Wright St.', 456)
8: ('Gregory Hall', '810 S. Wright St.', 462)
9: ('Main Library', '1408 W. Gregory Dr.', 522)
10: ('Institute For Genomic Biology', '1206 W. Gregory Dr.', 195)
11: ('Smith Memorial Hall (Music)', '805 S. Mathews Ave.', 56)
12: ('Foreign Language Building', '707 S. Mathews Ave.', 164)
13: ('Davenport Hall', '607 S. Mathews Ave.', 151)
14: ('UI Ice Arena', '406 E. Armory Ave.', 525)
15: ('Armory', '505 E. Armory Ave.', 528)
16: ('Medical Sciences Building', '506 S. Mathews', 714)
17: ('Roger Adams Lab', '600 S. Mathews', 712)
18: ('Native American House', '1206 W. Nevada', 139)
19: ('Animal Sciences Lab', '1207 W. Gregory', 630)
20: ('Edward R. Madigan Lab', '1201 W. Gregory', 51)
21: End Navigation Mode
```

Choose your 'STARTING' building No.: 2

Choose your 'DESTINATION' building No.: 20

```
=====Starting Navigation=====
Travel from Illini Union BookStore to Edward R. Madigan Lab:
Starting on S. Wright St. turn South
Go through the English Building
At Main Quad go through the path on the lawn
Go through the Foreign Language Building
At S. Mathews Ave. turn South
At W. Nevada St. turn East
At S. Goodwin Ave. turn South
Proceed until you arrive at Edward R. Madigan Lab
=====End Of Navigation=====
```



(2). End Navigation Mode

```
===== Navigation Mode =====
Choose the corresponding NUMBER of TWO buildings where you would like to navigate between.
You will be asked to choose the number of the building two times.
First time will be the starting building of where you want to start.
Second will be the building of the destination you want to arrive at.
===== Choice : (Buildings, Address, Mailcode) =====

1: ('School of Information Sciences', '501 E. Daniel St.', 493)
2: ('Illini Union BookStore', '807 S. Wright St.', 312)
3: ('Altgeld Hall', '1409 W. Green St.', 382)
4: ('Illini Union', '1401 W. Green St.', 384)
5: ('Henry Administration Building', '506 S. Wright St.', 368)
6: ('English Building', '608 S. Wright St.', 718)
7: ('Lincoln Hall', '702 S. Wright St.', 456)
8: ('Gregory Hall', '810 S. Wright St.', 462)
9: ('Main Library', '1408 W. Gregory Dr.', 522)
10: ('Institute For Genomic Biology', '1206 W. Gregory Dr.', 195)
11: ('Smith Memorial Hall (Music)', '805 S. Mathews Ave.', 56)
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17: ('Roger Adams Lab', '600 S. Mathews', 712)
18: ('Native American House', '1206 W. Nevada', 139)
19: ('Animal Sciences Lab', '1207 W. Gregory', 630)
20: ('Edward R. Madigan Lab', '1201 W. Gregory', 51)
21: End Navigation Mode

Choose your 'STARTING' building No.: 21
Aborting Navigation ....
```

(3). Exit Program

```
===== Welcome to NaviGrapher =====
----- Please Enter the "number" of choices below to use NaviGrapher -----
(1). List All Buildings
(2). Navigate!
(3). Exit/Quit

Enter your Choice: 3
Thank you for using NaviGrapher. GoodBye~!
```