

Group Number: 4

Group Members:

- Adam Wajahat
- Abdullah Akbar
- Jenain Khan
- Benjamin Rubarts
- Michael Villordon
- William Bumpass
- Vishakh Nair

Project Title: UTD Campus Pathfinding Application

Project Description: Optimization of paths from one point to another can be tricky, especially on the UTD campus where navigation is often complicated, and the shortest path often difficult to find. Thus, in an effort to make campus navigation more friendly, we propose an application that would allow for the quickest route across campus to be decided with just a start and end point. Paths - intended to be taken by those on foot - would be similar to other pathfinding applications such as Google Maps, though limited only to the UTD Campus and surrounding amenities (i.e. testing center).

- Would be a useful tool for campus guests or those adjusting to the changing campus
- Could be expanded upon to larger areas around campus to include distant apartments
- Setting path navigation ahead of time could allow for pre-planned paths to display at certain times
- Could be integrated into the UTD Mobile app, allowing for more concise school tool usage
- Allows for color coding or categorization of recurring routes
- Sharing of routes and directions through the app and other mediums
- Accommodates routes affected by restrictions (disability, shutdown areas, construction, etc.)
- Creation of agendas for daily routes utilizing calendar application integration (such as Google Calendar)
- User path preferences may be set (prioritize inside walkways vs outside walkways, etc)

Task list delegation (These are rough placements and can be changed if a group vote allows):

- Adding group members and TA to 3354-Group 4 repository: Vishakh Nair
- First commit to the repository: Jenain Khan
- Second commit to the repository ("project_scope" file): Adam Wajahat
- Address feedback to the project proposal: William Bumpass, Abdullah Akbar

- Software process model evaluation: Jenain Khan, William Bumpass, Vishakh Nair
- Requirement evaluations:
 - Functional: William Bumpass
 - Non-functional: William Bumpass
- Case diagram: Adam Wajahat, William Bumpass
- Sequence diagrams: Michael Villordon, William Bumpass, Benjamin Rubarts
- Class diagram: Benjamin Rubarts, Michael Villordon
- Architectural design (choosing and “implementation”): Abdullah Akbar, Michael Villordon, Jenain Khan
- Project scheduling: Benjamin Rubarts, Adam Wajahat
- Cost/pricing evaluation:
 - Hardware: Vishakh Nair
 - Software: Jenain Khan
 - Personnel: Michael Villordon
- Effort “evaluations”: Vishakh Nair
- Test Plan for Software: Adam Wajahat, Vishakh Nair
- Comparison to similar designs: Abdullah Akbar, William Bumpass
- References: Everyone
- Presentation Creation: Everyone

Scholar paper: Currently our group intends to write a scholarly paper, though this may change at future discretion.