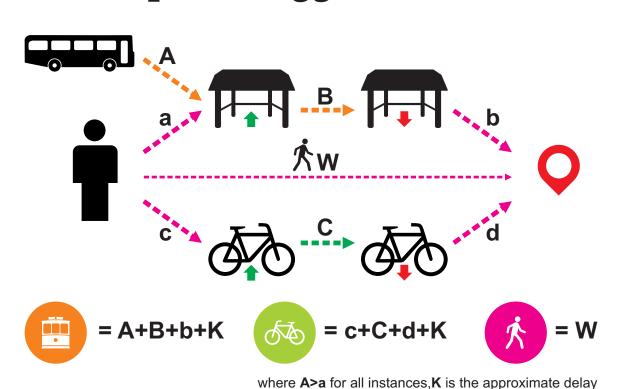


1. Transit Option Suggestion



- 2. Trolley Occupancy
- 3. ViaCycle location and availability
- 4. Unlock viaCycle from within the app
- 5. Distance / Time to destination
- 6. Favorite destinations
- 7. Track this bus

Pins a bus onto the viewport

8. 3D view to 2D maps

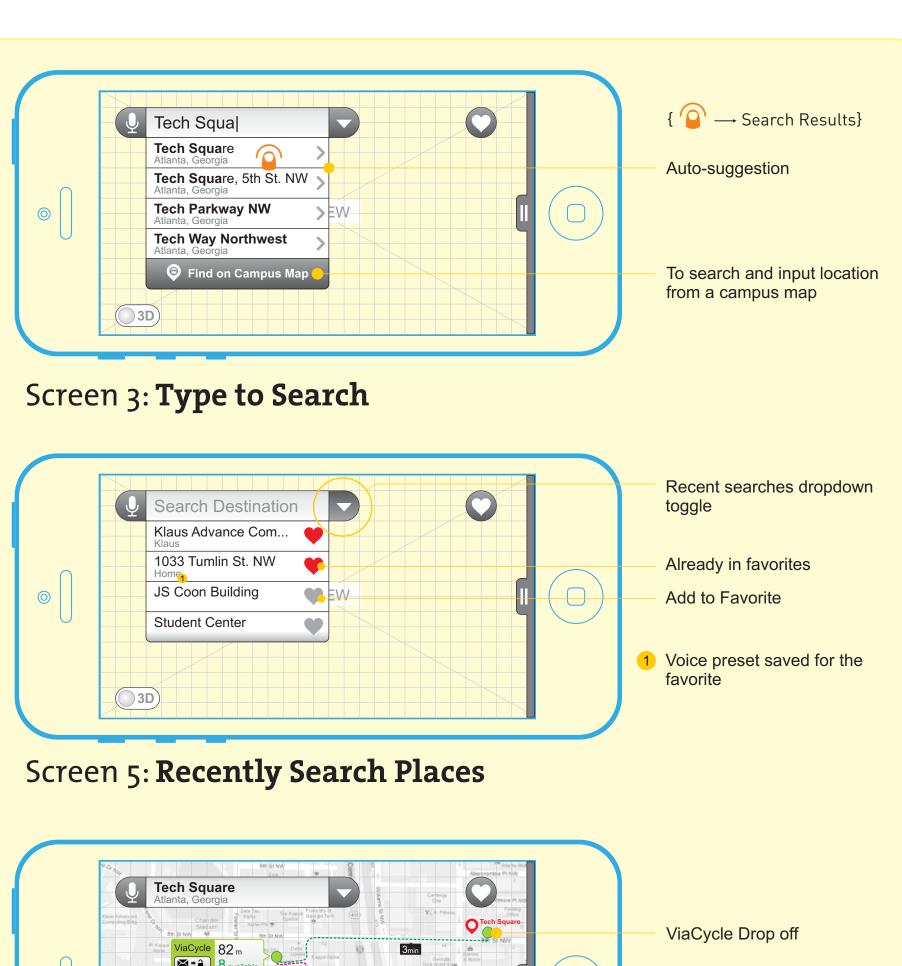
Held upright shows the AR View, held flat shows the map view

Slow movement alert

The system warns the users that their pace is too slow and is liable to miss a trolley

Concept Integration 6







Mockups & Wireframes



Poster Presentation 5

Poster presentation on the 3 design concepts and get feedback on the ideas.

Three Design Concepts 4

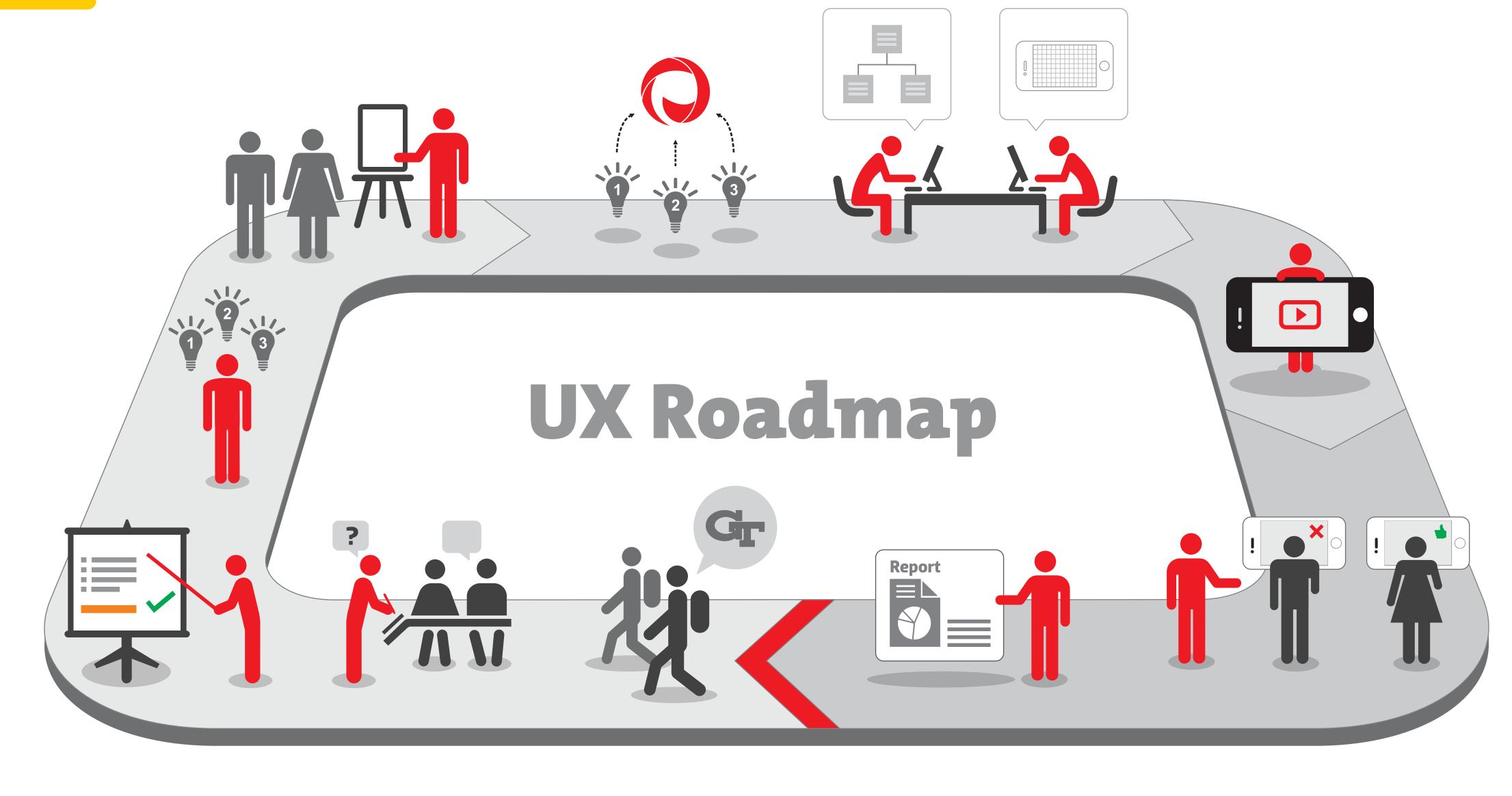
StepStop GoGlow SpinPointAR

Function Allocation

Analysed the constraints of the group: Short time between classes, uncertain bus schedules, users in transit

Prepared a feature list of the system

There is a need for a quick, convenient, efficient transit option to aid Georgia Tech students in navigating on campus without confusion!



Needs & Task Analysis

After preliminary interviews with our target group, we determined our problem space including issues and constraints involved, and the

subsequent problem definition



Describing the **Context & the User**

We settled upon the user group comprised of GT students who have difficulty quickly and efficiently navigating around campus.

Usability Report & Future Work

Usability for **new users** may be aided by incorporating a pop-up instructional message when users first begin exploring the app. Additional help in the form of a '?' or 'info' icon may be useful as well.

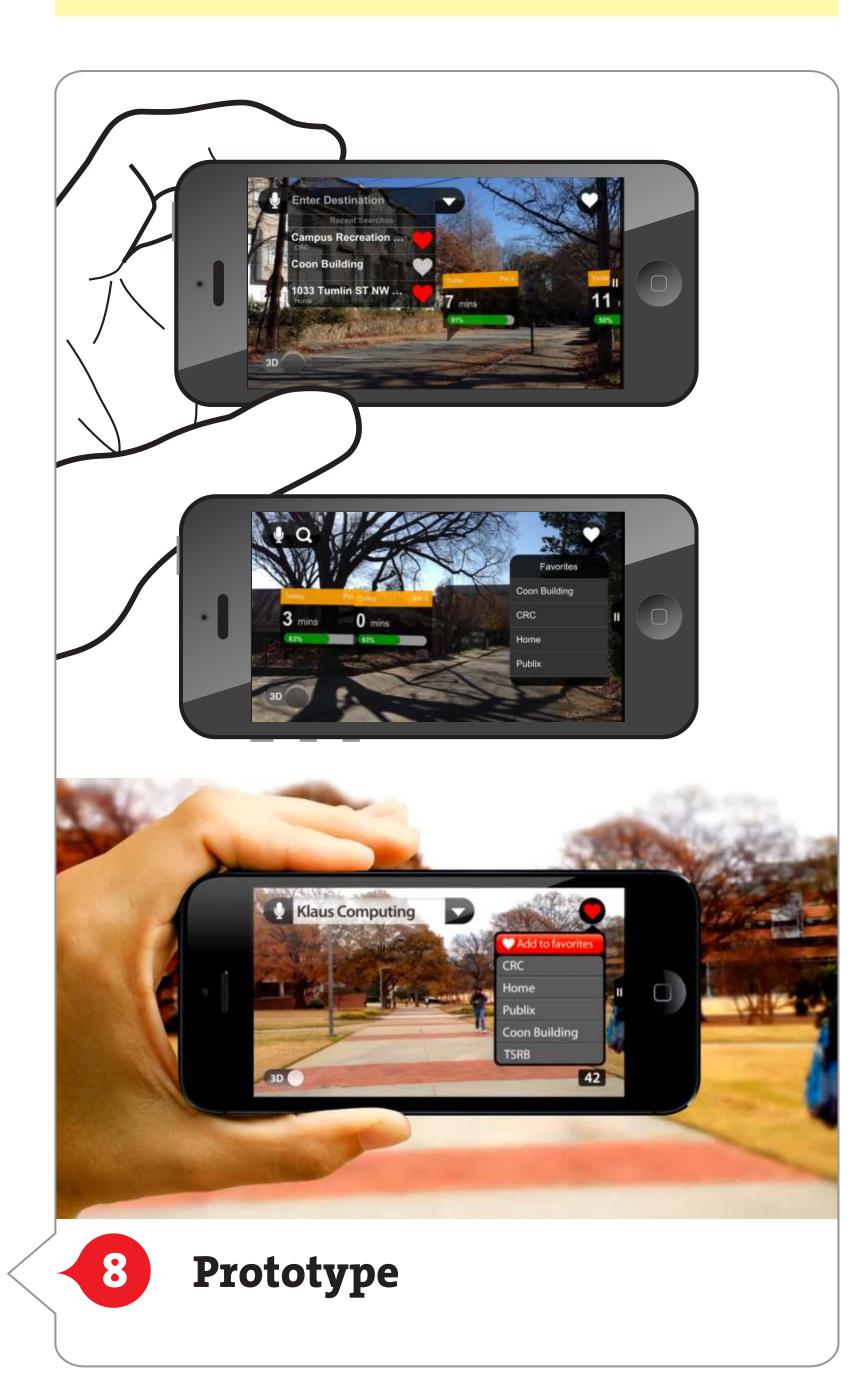
Summary

The overall impression - positive. Novelty of the AR view - see vehicles in realtime.

Useful to users who were new to the campus.

Concern that there were other systems with similar functionality.

Favorites system has been updated to allow multiple modes of adding a search destination to the favorites list.



Usability Testing

Participants unaware about ViaCycles.

Half of participants expressed a preference for walking over other modes of transport.

Participants had difficulties determining what the occupancy bar indicated.

At least one participant **preferred portrait** mode over landscape, regardless of the limitations.

Participants confused at decision screen. Alternate means of exiting should be made available.

The transit options slider and its functionality not readily apparent to users

The method of adding a destination to the favorites list was also not readily apparent to most users

Photos: https://photos.comm.gatech.edu Icons: thenounproject.com www.peerspun.com