



# Low-Fidelity Prototype and Heuristic Evaluation

Siheng Chen, Xinyi Li, Yifan Zhu, Zexi Luo



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## Results from brainstorm session

- Brainstorm session to create interface sketches for campus delivery robot application
- Sketched interfaces included login, D-BoT information, and order status interfaces
- Login interface allows for existing user login and new user account creation
- D-BoT information interface displays delivery robot ID, dispatch station, number of current orders being delivered, order position/priority, and real-time location
- Order status interface shows three stages: Ready to deliver, Enroute, and Received
- Discussed cancellation and redirection features

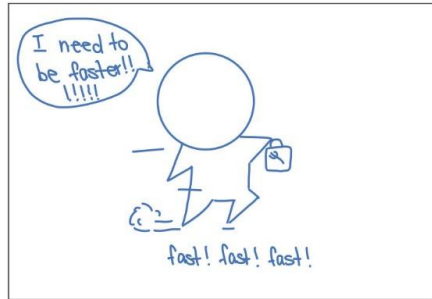


## Results from brainstorm session

- Cancellation implies the user wants to pick up the order at the dispatch station
- Cancelled order will wait for all other orders to be delivered before being returned to the station
- Estimated time of arrival provided for cancelled order
- Redirection feature provided as an option
- Finalized prototype composed of different subparts of each member's sketches and considered preliminary

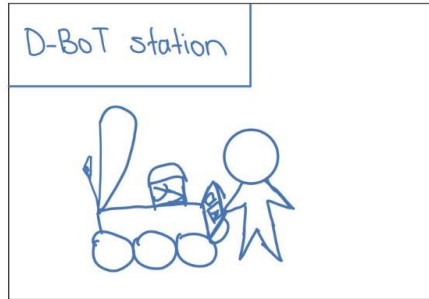
# Storyboard

PERSONA: Delivery driver  
Samuel

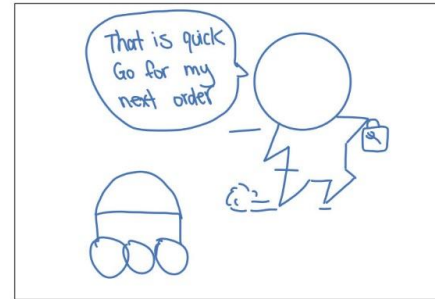


- Need to deliver food on time
- find a parking lot near by D-BoT station

USER STORY/SCENARIO: deliver food from delivery platform



- enter delivery number on one D-BoT
- put food in the D-BoT and close



- D-BoT is ready to deliver
- Samuel left for his next order



## Video Prototype

<https://youtu.be/nnaFklwm6E8>



## Heuristic Evaluation

1. Visibility of system status builds client trust.
2. Realistic design of maps and input boxes for intuitive experience.
3. Ever-present back button avoids confusion.
4. Consistency and standardization in descriptions and terminology.
5. Confirmation screens to prevent user errors.



## Heuristic Evaluation

1. Simplified interface reduces user memory load.
2. Adaptable to different delivery scenarios.
3. Clear and accessible instructions for users.
4. Ability to recover from errors or unexpected situations.
5. Help buttons and multiple support options available.





# Thank you

Siheng Chen, Xinyi Li, Yifan Zhu, Zexi Luo