CS615 Project Step 3 Report

- Storyboards and Sketches -

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We have identified hierarchical descriptions of 1) the parking process on campus, 2) purchasing parking passes, and 3) Imposing/paying parking fines from project step 2. We will present our storyboard to demonstrate how our parking management system can be used for a specific persona and a scenario using visual descriptions.

Personas

Persona #1

Alice

- An undergraduate student at UMass Boston
- Drives and parks on campus
- Has basic knowledge of using smartphones
- Just started driving, so not familiar with parking regulations
- Prefers online systems to in-person systems

Persona #2

Tom

- A manager for a parking lot at UMass Boston
- His duty includes checking parking lot availability, citing parking violations, managing parking passes, and customer services
- Has good knowledge of using smart devices

Scenario: "Campus parking on hand"



- 1. Getting a parking pass Feeling: Annoyed, discouraged
 - Alice tries to find where to buy a parking pass
 - He found he needed to apply for a parking pass and wait for an approval

- He submitted an application but got rejected because he's not eligible for the type of parking pass he applied for
- Finally, he got the parking pass but he wants to cancel his parking pass because he changed his plan
- After the semester, he checked his bank account, and he found he was still charged
- Calling the parking office, he finally resolved the issue



- 2. Switching to the parking app Feeling: Dubious, promising
 - Alice logs in to the app using the university credentials
 - The parking app shows only available parking pass options to Alice by checking his account status (Student, Faculty, Full-time/Part-time, ...)
 - Alice pays for the parking pass in the same app
 - The parking app automatically authorizes Alice's parking pass and Alice can freely use the parking lot from then
 - Parking managers can see the current parking pass holders list real-time



- 3. Problem solved Feeling: Happy, Relieved
 - Alice can cancel or change his parking pass as long as the app allows
 - The app will automatically calculate the prorated amount and issue a refund
 - Alice could deal with his parking pass purchase without hassles

- Purchasing a Parking Pass-



A student Alice needs to Purchase or Parking Pass for the Upcoming semester.

2. He downloads the Parking app, and he logs in with his university account. The Parking Dapp Pulls UP his status. The parking Dapp Pulls UP his status. The outp only shows the available parking pass types he can puchase.

Welcome "Alice"				
You are a full-time graduate student				
Select On-campus Off-campus				
Available Spots: West Garage, Lot D, University				
, Bayside				
Add my vehicle				
Take Photo MA 1234				
3. Alice Pays the parking pass on the app				
CARD NUMBER (XXXX-XXXX VISA, Moister, Discover, Paypay				
Product: Fall 2023 Semester Parking Pass Price: \$550				

Porment option: [Port in full] [Installment]

4. The opp outomatically vortidates the parking pass that a Parking Mourager will not need to do any moural validations.

BUKIN	Nome	TYPE	Purchase date
Manager	Bob Atice Charles Etik Prank	Student Student Faculty Faculty Student	09/01/2023 08/30/2023

5. Alice can check his current & past Patting Passes in the OPP anytime

FOII 2023 ON-COMPUS \$550 ACTIVE 12/31/23

Fall 2022 off-compus \$500 Expired 12/31/23

- Parting Parking fines
1. Parting Fines
A Student Alice Violated a Parking regulation

2. A Parking Manager notifies

Alice of his Parking Violation

Violation Move

Tour car

ASAP

Manager

Manager

3. If Alice does not move his vehicle, Porting fines will be automatically incurred in his account

UMB Parking app MAICE FINE \$50 10/11/2024

Poy Dispute

4. Alice can directly Pay in the app, and his citation Will be revoked.

CARD NUMBER

VISA Moster, Discover PayPay

Product: Fall 2023 Semester Parking Pass Price: \$550

Polyment option:

Pot in full Installment

UMB Parking OLPP

Alive fine \$50 PAID

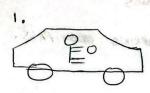
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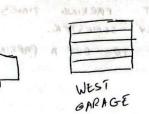
STURY BOARD

GROUP-2

PARKING, APP - STUDENT

5.



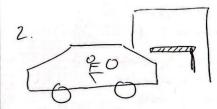




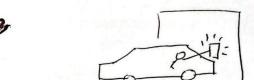




chooses parking facility.



John enters the parking facility, west garage

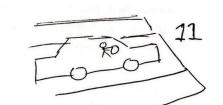


John presents
pass (07)

4.



John checks available spaces on app.



John Parks car

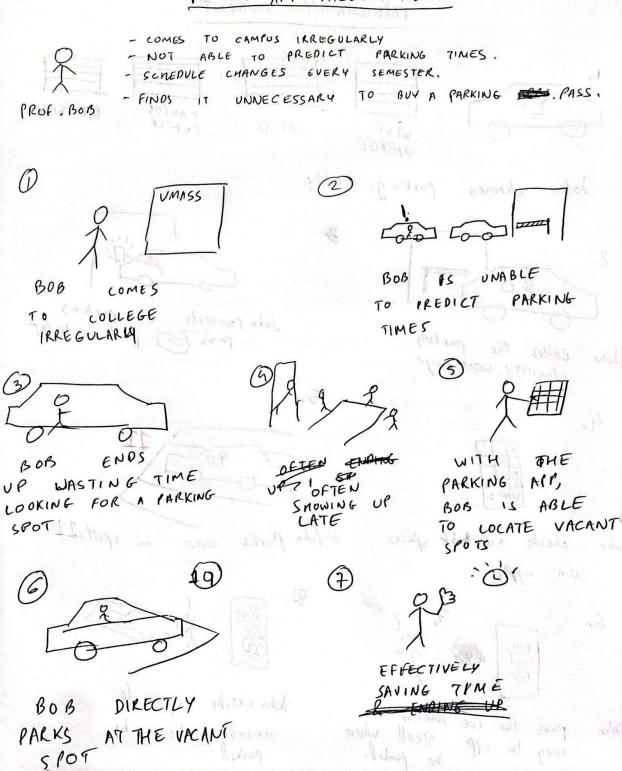


pays the fee Johncan't where using the app. necall where



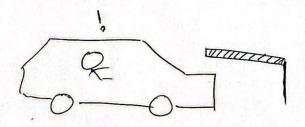
John checks remember where he panked

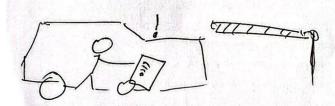
PARKING APP- FACULTY MEMBER



- ALEX OFTEN FORGETS TO BRING
HIS PARKING PASS TO SCHOOL

ALEX





WITH THE PARKING APP, HE CAN USE THE NFC ON HIS PHONE TO PARK WITH EASE

References

Emoticons:

https://thenounproject.com/icon/mad-540789/

https://thenounproject.com/browse/icons/term/skeptical/

https://www.svgrepo.com/svg/10551/happy