

**Software Development Proposal**

9/7/2016

Team RockUrSocksOff  
  
Dear Dr. Siy,

Re: Enclosed Software Proposal  
  
Enclosed is our detailed software proposal for your kind consideration.

At RockUrSocksOff, we have committed ourselves to ensuring software quality. We do this by implementing requirements engineering through elicitation, modeling, and analysis. We are aware that client-oriented software is of utmost importance and that every client has unique needs. We have committed ourselves to modeling via prototyping every software project we encounter. Our prototype will emulate the crucial user-stories and identify possible pitfalls in the large-scale design.

From our previous meetings we have elicited the need for student-oriented software to reduce parking congestion at UNO. The users will be students and faculty seeking to obtain parking spots. Those affected by the software include UNO persons and the surrounding traffic affected by the slowed parking scenario. The software will seek to meet stakeholder needs by reducing congestion while satisfying users by delivering a quicker parking scenario.

The software is special, because it interfaces drivers with users. Users will be able to signal that they are leaving a parking spot. This interaction will direct drivers to open parking spots. This will reduce overall congestion and the time required to find parking. Faster parking results in higher user satisfaction. Higher user satisfaction results in more users who are willing to park at UNO. All of these results satisfy the client.

The proposed software is a PHP based website geared toward mobile devices. Users will sign-up for an account and include a picture of their vehicle, as well as payment information. Signing up will require a UNO email address. This prevents users from having multiple accounts. Users will simply need to click a website button to notify drivers of their location and their intention to leave. The website will retrieve the user’s GPS location from their mobile device. A live aerial traffic map will display this location to drivers. The website will keep track of the drivers’ GPS location with respect to open parking stalls. This location is private and not displayed on the website. As drivers approach the location of those leaving, they will be able to request the parking spot.

Upon request, there is a user-user financial transaction for the parking spot. The mobile device will present the requesting driver’s vehicular photo. The user can choose from among nearby drivers and accept their application to park in the stall. Upon acceptance, the application charges the driver a small fee for the parking stall. The user gains this fee. This transaction ultimately provides the user incentive to use the software. This fee changes from a small fee of $0.50 and surges higher with increased parking demand. After the transaction, users and drivers rate their transaction out of five stars. Users may even leave a comment about the other user. This accountability encourages trust in the website and builds accountability into the app. The website displays the user rating with their vehicular photo. Previous comments show up under the user’s photo. In the case of a failed transaction, the driver may request and receive an immediate refund. The software favors the frustrated driver’s experience, trusting that this will bring the highest overall user satisfaction.

Here at RockUrSocksOff, we strive to deliver quality software.

Yours Truly,  
  
  
  
Chad Crowe

RockUrSocksOff

Enclosed