Kevin Lopez

[Klopez11@syr.edu](mailto:Klopez11@syr.edu)

CIS453

HW #1

Software development idea: Mobile and Website application for barbers and customers to schedule hair cuts

Business: Many people are not connected to their community, and cutting hair is a very local activity. Finding a barber that you like is even harder and could take weeks. With this application, finding a barber and scheduling an appointment will be easier and faster than before. With the profiles, you will be able to see if the barber is a good fit for you as well. The app charges 3 percent on top of haircuts to get revenue.

Actors:

* Customers- people who need hair cuts
* Barbers – people who cut hair
* Administrators – Highest ranking software developers / executives of company

1. Functional requirements
   1. Customers and barbers will be able to register new accounts or login to existing accounts
      1. Barbers
         1. Must upload certification of barber school
      2. Customers
         1. Must upload valid form of ID
      3. Verification email will be sent to new accounts
      4. Users will link their phone numbers via 2 factor authorization
   2. Barbers and Users will be able to set up appointments on the application, based on the barber’s availability
      1. Customers will be able to cancel appointments at least 24 hours in advance, if done within 24 hours of appointment there will be a fee associated with the account
      2. Barbers will be able to cancel appointments at will with options to explain why
         1. If reason is due to barber negligence, they will have to pay a fee
   3. Customers will be able to pay via the application
      1. Barbers will be able to set up direct deposit to get paid directly
      2. Customers will be able to save credit cards/ debit cards onto the account
   4. Barbers and Customers will give ratings to their each other after each haircut
      1. Ratings will be between 1 and 5, 1 being the lowest and 5 being the highest
      2. Comments will be enabled to ensure the safety of both parties
         1. Reviewed by a safety team and monthly report is sent to Administrators
   5. Barbers and customers will have profiles set up that show their rating
      1. Barbers can upload pictures of previous clients to attract new ones
      2. Barbers and customers can link social media accounts to add pictures
   6. Barbers will be able to post links to their own products in their profile
      1. They can add links to other products they recommend via their profile
   7. The system should record all haircuts by the customer up to a year prior to current date
2. Non-Functional requirements
   1. Software should work on mobile systems IOS and Android, and operating systems Windows, Mac, Linux and Unix
   2. Once user sets up an appointment, a confirmation text will be sent within 30 seconds
      1. Canceled appointments will be registered within 5 seconds of being confirmed
   3. New accounts will have a verification email sent within 5 seconds
   4. Only Administrators and customers and barbers will be able to view their own appointments
   5. Only Administrators will have access to customer’s cards and barber’s payment information
   6. Ratings will be updated within 30 seconds of being sent to the system
   7. Customer profiles will be visible to barbers and barber profiles will be visible to customers
   8. Barbers and customers will be able to submit ratings(functional requirements: d) after 30 minutes of scheduled hair cuts
   9. Harmful links will be reviewed and determine if an account will be banned(functional requirements: f)