Rapid Prototype #1 – “6-10-14”

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**Due: February 2nd, 2022 Total point value: 65**

Individual Assignment

**Goals**

This task will give you practice with the notion of “6-10-14” Rapid Prototypes. Take a look at this article for more information on “6-10-14” rapid prototyping: <https://uxplanet.org/6-10-14-rapid-prototyping-a-remote-group-activity-recharges-your-ux-team-6bf14c05bb23>

Graphical user interface, text, application, chat or text message

Description automatically generated

“Unlike the old, classic way of rapid prototyping, this exercise requires the participants to ideate even faster, and iterate the design to reflect the reframed problem statement.” – Mandy Ding

**An Example:**

Text

Description automatically generated

**Scenario:**

Design a camera-focused app for the Washington DC Subway system.

– Design suggestion came from <https://sharpen.design>.

The app was designed to improve user experience (attract more users) and maintain the subway system. Users can take photos and send them to Subway’s staff (whoever oversees this project). Later, the Subway system will contact the maintenance team to solve the problem (or do whatever they need to solve the problem). Maintenance can also take a picture and reply to the post that issues have been solved. Users can also post, reply to comments on the post. The owner of the best post shall receive a gift by each week (free ticket: to motivate their effort). This is not only improving the subway system but also enhances the security of travelers.

**Assessment Breakdown:**

Set a timer for 6-Min:

Brainstorm a variety of different User Types that would use the product within the Scenario section.

* Regular traveler (work or school): these people travel with a schedule and high frequent
* Tourist: may travel one or couple while they stay in Washington DC (not local people)
* People who do not work, or school but rely on public transportation: people don’t get access to a personal vehicle but live in the local area. They want to go shopping centers or grocery stores occasionally.
* Subway staff and administrator: People that travel on the subway daily or do the admin at its physical stations.
* Subway maintenance team: people who perform the maintenance on the subway system (IT, electrician, janitor, constructor, mechanical …)

Set a timer for 10-Min:

1. Choose 3 different User Types that you came up with during the **6-min** section.

* Regular traveler
* Subway staff and admin
* Subway maintenance team

1. For each of the three user types, create at least 5 requirements. You should have at least 15 requirements (5 requirements for the 3 user types)

* Regular traveler:
  1. **Login/Register**: Users must be registered with username (email with validation) and password
  2. **Take Picture**: Users can take pictures from their mobile device (tablet, smartphone) or laptop and post them to the app.
  3. **Post:** Users can post, insert, update, delete a post
  4. **Comment/Share:** Users can comment or share a post
  5. **Log out** Users can log out of their current unit
* Subway staff and admin
  1. **Login/Register:** Staff and admin must be assigned with username (email with validation) and password by the Subway IT administrator.
  2. **Take Pictures, Post, Comment, Share, Logout**: the same as regular users (5 basic features of regular users)
  3. **Content Filter:** Staff and admin have a content filter on their end for the violated posts (using machine learning, or grammar base testing…)
  4. **Remove:** Staff and Admin can remove a violated post
  5. **Track and Validation:** Staff and Admin can validate and track the work that notifies by end-user
  6. **Assign:** Staff and Admin can assign a maintenance team (or individual)
* Subway maintenance team
  1. maintenance team must be registered with username (email with validation) and password. Email is an invitation sent to the contractor’s company from the Subway IT administrator (without invitation, contractor account can’t be registered).
  2. **Take Pictures, Post, Comment, Share, Logout**: the same as regular users (5 basic features of regular users)
  3. **report**: report the result of maintenance to the Subway staff and admin group

Set a timer for 14-min:

1. Choose one of the three user types you chose from the **10-min** section
2. Once you chose one of the three user types, look at the list of requirements you made for that user type in the **10-min** section
3. Create a Feature List. That describes the functionality of the product you made from the Scenario section and how the features align with the user types and requirements you identified.

***Answer:***

Subway staff and admin feature:

* 1. **Login/Register:** Staff and admin must be assigned with username (email with validation) and password by the Subway IT administrator.
  2. **Take Pictures, Post, Comment, Share, Logout**: the same as regular users (5 basic features of regular users)
  3. **Content Filter:** Staff and admin have a content filter on their end for the violated posts (using machine learning, or grammar base testing…)
  4. **Remove:** Staff and Admin can remove a violated post
  5. **Track and Validation:** Staff and Admin can validate and track the work that notifies by end-user
  6. **Assign:** Staff and Admin can assign a maintenance team (or individual)

The admin and staff group include the basic functionality of a regular user group and the maintenance group. They also feature with admin level (remove, filter content, report, assigned). These advanced features depend on the admin roles assigned to each account (at the time account is open or later upgrade with appropriate credentials). For example, a regular staff account can remove content; and an admin account can assign tasks for the maintenance team.

**Submit:** Submit on Brightspace by the due date.

**Evaluation:**

This assignment has no (technically) correct answers! You will be graded on quality of response, not opinion

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| --- | --- | --- |
| **Requirements** | **Pts** | **Comment** |
| 6 min | **10/10** |  |
| 10 min | **20/20** |  |
| 14 min | **30/30** |  |
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