Kelsey Dietrich

Scalable Software – Dr. Ferrer

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Project 2 Requirements

**Purpose and Scope**

* Overall goal to have a working peer-to-peer network application that provides the user with a social media platform where they can talk to their friends who have been given access to the network.
* **Stakeholders & Interests**
* **Creator:** Working, user-friendly program that fits the owner’s specifications
* **Owner:** Working program, ease of maintenance, user-friendly software
* **User:** easy to use software allowing them to share things with whomever they choose
* **Scope:** Software allowing users to share text, pictures, and files with each other within a social media template

**Glossary**

* **Access Key** is the port number, which the user is given to access the network
* **Computer/Application/System** used interchangeably
* **Personal Information** is the user’s username and password (only accessible to the user); user has the option to enter is a profile picture, birthday, e-mail, phone number, and a short bio.
* **Timeline** is the chronological feed of all posts from most recent to least recent (e.g. Twitter); it is one large timeline of posts from every user.

**Use Cases**

* **Actors:** Users, Computer
* **User Goals:**
* Account creation
* Log in capabilities
* Share a text post
* Share pictures or other file types
* Update personal information
* Add/Change a profile picture
* Delete Post
* **Use Case 1:** Create Account
* **Primary Actor:** User
* **Precondition:** Application on. No one logged in on user’s computer (others on network can be logged in from separate machines).
* **Minimal Guarantee:** Acknowledgement message. Application still on.
* **Success Guarantee:** Account created. Confirmation message on screen.
* **Trigger:** User wishes to create account.
* **Main Success Scenario:**

1. Computer displays text boxes for information.
2. User inputs and submits information including access key.
3. Computer logs user information in database.
4. Computer displays confirmation message.

* **Extensions:**

2a. Account already exists.

2a1. System notifies user, terminates the use case.

2b. No information entered.

2b1. System notifies user. User asked to reenter information.

2c. Incorrect access key

2c1. System notifies user. User asked to reenter access key.

* **Use Case 2:** Log In
* **Primary Actor:** User
* **Precondition:** Application on. No one logged in.
* **Minimal Guarantee:** Acknowledgement message. Application still on.
* **Success Guarantee:** User logs in. Previous activity not deleted.
* **Trigger:** User wants to log into already created account.
* **Main Success Scenario:**

1. Computer displays text boxes for information.
2. User inputs and submits information.
3. Computer logs user in.
4. User data intact.

* **Extensions:**

2a. Incorrect information entered. Account doesn’t exist.

2a1. System notifies user; User asked to reenter information.

* **Use Case 3:** Share Text Post
* **Primary Actor:** User
* **Precondition:** Application on. User logged in.
* **Minimal Guarantee:** Acknowledgement message. Application still on. Other posts intact.
* **Success Guarantee:** Text post shared with other users. Timeline updates.
* **Trigger:** User wants to share a text post with other users.
* **Main Success Scenario:**

1. Computer displays text box.
2. User inputs text post into text box and submits text.
3. Computer updates timeline with new text post at top next to user’s name & picture

* **Use Case 4:** Share Picture/Other Files
* **Primary Actor:** User
* **Precondition:** Application on. User logged in.
* **Minimal Guarantee:** Acknowledgement message. Application still on. Other posts intact.
* **Success Guarantee:** Picture or file shared with other users. Timeline updates.
* **Trigger:** User wants to share a downloadable picture or file with other users.
* **Main Success Scenario:**

1. Computer displays text box for file information and browse option.
2. User chooses file.
3. Computer updates timeline with new picture or file at top next to user’s name & picture

* **Extensions:**

2a. File does not exist.

2a1. System notifies user. User asked to reselect picture or file.

2b. File extension not accepted.

2b1. System notifies user file type not supported. User asked to reselect file.

* **Use Case 5:** Update Personal Information
* **Primary Actor:** User
* **Precondition:** Application on. User logged in.
  + **Minimal Guarantee:** Acknowledgement message; Application still on. Old information intact.
  + **Success Guarantee:** Information updated.
  + **Trigger:** User wants to update their information.
  + **Main Success Scenario:**

1. Computer changes text fields to be editable.
2. User changes and submits information.
3. Computer changes information.

* **Use Case 6:** Add/Change Profile Picture
* **Primary Actor:** User
* **Precondition:** Application on. User logged in.
* **Minimal Guarantee:** Acknowledgement message. Application still on. Old profile picture intact.
* **Success Guarantee:** New profile picture added.
* **Trigger:** User wants to change their profile picture.
* **Main Success Scenario:**

1. Computer displays old picture and browse option for new picture.
2. User chooses picture file.
3. Computer updates user profile with new picture next to user’s name.

* **Extensions:**

2a. Picture file does not exist.

2a1. System notifies user. User asked to reselect picture file.

2b. Picture extension not accepted.

2b1. System notifies user file type not supported. User asked to reselect file.

* **Use Case 8:** Delete Post (Text, Picture, or File)
* **Primary Actor:** User
* **Precondition:** Application on. User logged in.
* **Minimal Guarantee:** Acknowledgement message. Application still on. Other posts intact.
* **Success Guarantee:** Selected post deleted; Timeline for all users updated accordingly.
* **Trigger:** User wants to delete a post.
* **Main Success Scenario:**

1. User selects post to delete.
2. Computer asks if user is sure
3. Computer deletes post and updates timeline for all users accordingly.

* **Extensions:**

2a. User says cancel.

2a1. System does not delete post.