Lost Pet Finder chip/app: User Stories Assignment

CS 361: Software Engineering I

Group 16

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User Stories

1. **Login**

   As a user, I want to be able to login because I would like the app to remember me.

2. **Create user and pet profile**

   As a user, I want to be able to create my profile and register my pet(s) in the app because it will allow me to track and report my pet(s) status.

3. **Scan My Pet**

   As a user, I want to be able to scan my pet or pets because I want to be able to track their location.

4. **Check The Map**

   As a user, I want to be able to check the map because I want to understand how to track my pet and other missing pets.

5. **Edit My Pet Status**

   As a user, I want to be able to edit my pet status because others could get notifications and help if my pet is lost or found.

6. **Navigate To A Lost Pet**

   As a user, I want to navigate to the lost pet because I would like to effectuate a reunification.

7. **Scan A Lost Pet**

   As a user, I want to scan the missing pet I found in order to notify the user(owner) that the pet has been safely found.

8. **Shelter Scans A Lost Pet**

   As a user(shelter or animal control), I want to be able to scan the missing pet because I want to notify the owner that the pet is found.

9. **Mark A Pet As Found**

   As a user, I want to be able to mark a pet as found and notify the owner.

10. **Deactivate Pet Account**

    As a user(owner), I want to be able to get rid of my pet's profile because the pet might pass away or the pet could not be recovered.

11. **Pet History**

    As a user, I want to view the history of the pet because I would like to know when was the last time my pet was lost.

12. **View Local Lost Pets**

    As a user, I want to be able to see lost pets that are registered in my proximity because I would like to help return them to their owner.

13. **View Other Pet Profiles**

    As a user(other app user), I want to be able to look at other pet profiles because I want to be able to see information about the pet if I'm trying to track them.

14. **Update Search Proximity**

    As a user, I want to be able to change the radius of the search because I would like to limit the search to my neighborhood.

15. **Logout**

    As a user, I want to be able to logout because I would like to prevent unauthorized use of the app.

User Story Task

1. Login

    a. This story is due for homework 6.

    b. Tasks

        I. Set up database with all user data. This will take 2 hours.

        II. Create front-end page that allows user to input their username, password, and then verifies the information according to what is in the database. It will also have a create account button for new users. This will take approximately 3 hours.

        III. Create verification method. This will take 1-2 hours.

2. Create user and pet profile

    a. This story is due for homework 6.

    b. Tasks

    Requires: Login

        I. Create application page that displays user/pet information. This will take 2-3 hours.

        II. Upon login allow the user to input user/pet information that is then applied to the page. This should take approximately 1-2 hours

        III. Implement an "edit" button that allows user to update their information. This should take 1 hour.

3. Scan pet

    a. This story is not due.

    b. Tasks

    Requires: Login, and Create User/Pet profile

        I. Create scanning page that allows application to detect nearby chips. This should take 3 or more hours.

        II. Once signal detected will automatically activate chip. This should take 3 hours.

        III. Implement a page that prompts the user registration instructions. This should take 1 hour.

4. Check the map

    a. This story is not due.

    b. Tasks

      Requires: Login and Create User/Pet profile

        I. Implement map page that displays information gathered. This should take 1-2 hours.

        II. Implement the back-end work that grabs the real time GPS information. This should take 1-2 hours.

        III. Implement Icon as a pawshape that indicates a pet at the specified GPS location. This should take 1 hour.

5. Edit pet status

    a. This story is due for homework 7.

    b. Tasks

      Requires: Login and User/Pet profile

        I. Implement "update status" button that allows users to alert others whether their pet has been lost/found. This will take 1-2 hours.

        II. Button uses Notification Handler to then notify nearby users within specified radius. This will take 1-2 hours.

6. Navigate To A Lost Pet

    a. This story is not due.

    b. Tasks

        I. This story requires the Login, Create user and pet profile, and Edit pet status to be completed before it can happen.

        II. Implement an "update status" button in the pet profile page to allow the user(owner) to alert other app users that the pet is missing. This will take approximately 1-2 hours.

        III. Add a feature to the app to allow it to display push notifications to users through the Notification Handler. This will take approximately 1 hour.

        IV. Implement the map page to display pet tracking information to other app users that receive the push notification. The map page will function because the Map/Location Processor is receiving tracking information from the NFC Chip Tracker. This will take approximately 2 hours.

7. Scan a Lost Pet

    a. This story is not due.

    b. Tasks

        I. This story requires the Login, Check The Map, and Navigate to a Lost Pet to be completed before it can happen.

        II. Implement the map page to display pet tracking information to other app users that receive push notifications. The map page will function because the Map/Location Processor is receiving tracking information from the NFC Chip Tracker. This will take approximately 2 hours.

        III. Create a scanning page so other app users can scan the chip on the missing pet. The scan will send data to the database to verify the pet's information. This will take approximately 4 hours.

        IV. Add a feature to the app to allow it to display push notifications to users through the Notification Handler so the user(owner) can receive an update that their pet has been found. This will take approximately 1 hour.

8. Shelter scans a lost pet

    a. This story is not due.

    b. Tasks

        I. This story requires the Login and Create user profile to be completed before it can happen.

        II. Create a login and register page so the user(shelter) can make an account and login to the app. This will take approximately 3 hours.

        III. Create a page to allow the user(shelter) to create a profile. This will take approximately 3 hours.

        IV. Create a scanning page so the user(shelter) can scan the chip on the missing pet. The scan will send data to the database to verify the pet's information. This will take approximately 4 hours.

9. Mark a pet as found

    a. This story is due for homework 6.

    b. Tasks

      I.   This story requires the Login, Create user and pet profile, and Scan pet to be completed before it can happen.

      II.   Create a pet profile page to allow the user(owner) to set up information about their pet and change the status of their pet. This will take approximately 3 hours.

      III.   Implement an "update status" button in the pet profile page to allow the user(owner) to change the status of the pet to "found". This will send information back to the Map/Location Processor to take the pet's information off of the map. This will take approximately 2 hours.

10. Deactivate pet account

  a. This story is due for homework 7.

  b. Tasks

      I.   This story requires the Login and Create user and pet profile to be completed before it can happen.

      II.   Create a login and register page so the user(shelter) can make an account and login to the app. This will take approximately 3 hours.

      III.   Create a pet profile page to allow the user(owner) to enter in information about their pet. This will take approximately 3 hours.

      IV.   Create a button on this page to allow the user(owner) to deactivate the pet's profile if the user(owner) doesn't want the pet to have a profile anymore. This will take approximately 2 hours.

11. Pet History

  a. This story is not due.

  b. Tasks

      I.   This story requires, Login and Create User and Pet Profile to be completed before it can happen.

      II.   Create a button in the pet profile that allows the user to view their pet's history on the Pet History screen. This will take approximately 1 hour.

      III.   Add functionality so that when the button is clicked, the app retrieves the following information from the database: when the pet was last lost, location of where it was found, and who found it. If all of the information returns is null, the pet was not previously lost. This will take approximately 4 hours.

IV. This information is displayed to the owner on the app screen on the Pet History screen. This will take approximately 1 hour.

12. View Local Lost Pets

a. This story is not due.
b. Tasks
   I. This story requires, Login, Create User, Push Notification and Profile to be completed before it can happen.
   II. Add a button to the Home Screen that takes the user to a screen where they can view local lost pets. This will take approximately 2 hours.
   III. When a user (pet owner) sends a push notification through the Notification Handler for their pet, the respective pet's profile is viewable through the app to those within the radius selected by the user (pet owner). This is handled by the Notification Handler and Maps/Location processor. This will take approximately 4 hours.
   IV. The user can view a scrolling feed of recent push notifications, and the respective pet's status. The pets' profiles are retrieved through the database, and the pets' name, breed, image and status are displayed. This will take approximately 3 hours.

13. View Other Pet Profiles

a. This story is not due.
b. Tasks
   I. This story requires, Login, Create User, Pet Profile, and Feed of Viewing Missing Pets to be completed before it can happen.
   II. On the Feed of Missing Lost Pets, the user can click on the notification to be taken to a page where they can view a pet's full profile. This will take approximately 3 hours.
   III. The full profile, including additional pictures of the pet, is retrieved through the database and displayed as a page. This will take approximately 4 hours.
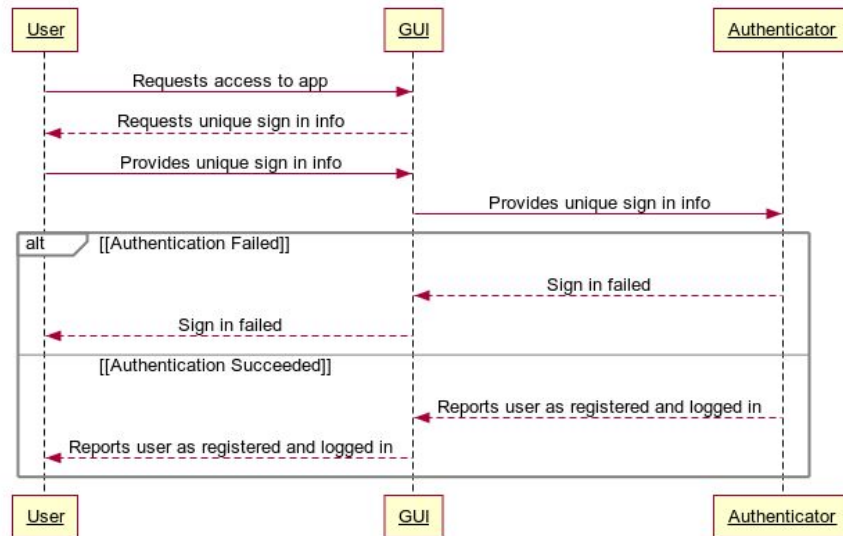
14. Update Search Proximity

    a. This story is not due.

    b. Tasks

        I.   This story requires, Login, Create User, Pet Profile and Push Notification to be completed before it can happen.

        II.   Add a button that will take the user to the Push Notification page. If a pet's status is currently set to Lost, the user can choose the search proximity from a drop down, and submitted using a button. This will take approximately 2 hours.

        III.   The search proximity selection utilises the Map/Location processor to access the user's current location. The Map/Location processor then sends a notification to the Notification Handler, which sends a Missing Pet Alert to all app users registered within the radius selected by the pet owner. This will take approximately 4 hours.
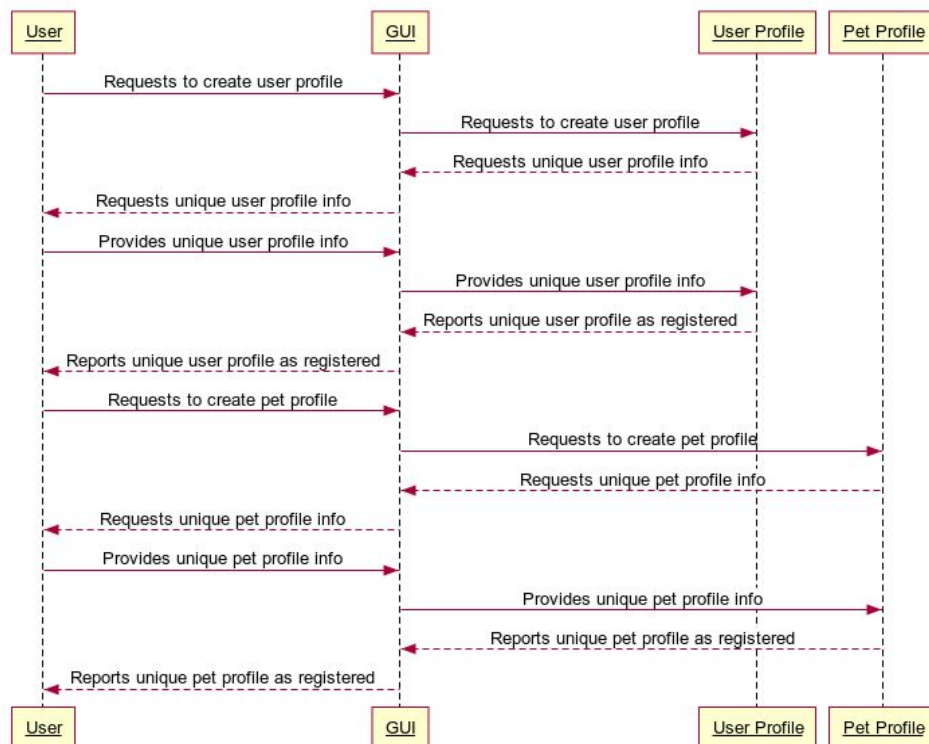
15. Logout

    a. This story is due for homework 7.

    b. Tasks

        I.   This story requires Login and Create user to be completed before this can happen.

        II.   Add a button to the homepage that allows the user to logout. This will take approximately 1 hour.

        III.   When the button is clicked, the user will be logged out. The user will be logged out. This will take approximately 2 hours.
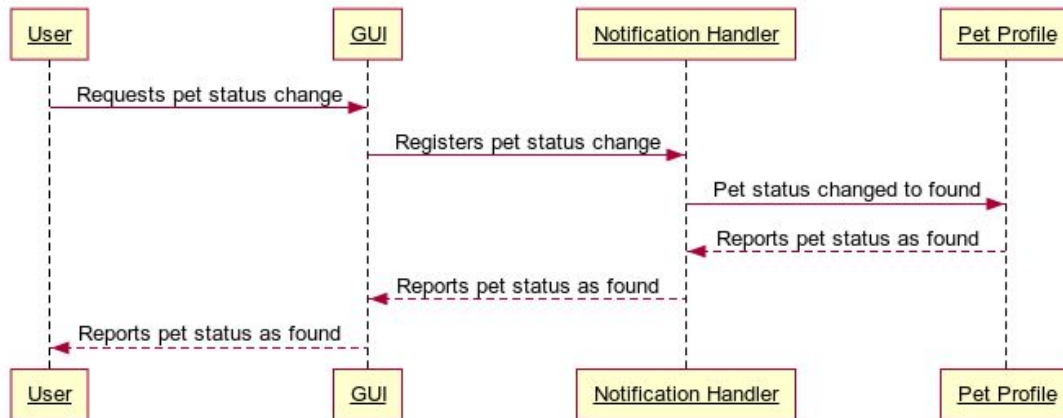
User Story Diagram

1. Login

2. Create user and pet profile

3. Mark a pet as found

Implementation Plan

Week 6

After a thorough review process, the following three user stories were selected for HW6:

1) Login
2) Create user and pet profile
3) Mark a pet as found

Given the limited time we have to implement the user stories, and the complexities involved with several of them, we felt the above choices represent a reasonable, achievable selection for HW6. Our choices for HW7 will reflect user stories with more enhanced requirements.

The below chart represents our planned workflow to complete HW6.

11/19 Tuesday		
1 hour	Create dummy entries for database	Matt or Marc
1 hour	Create burndown diagram	Shannon
11/20 Wednesday		
1 hour	Team meeting	Everyone
1 hour	Draft HW6 Document	Matt or Marc

11/21 Thursday		
4 hours	Coding	Haya, Ryan, Shannon
11/22 Friday		
2 hours	Write up refactoring	Haya, Ryan, Shannon
3 hours	Test Code and write up	Marc and Matt
11/23 Saturday		
1 hour	Finalize HW6 & create HW7 schedule	Marc and Matt

Customer

Our customer, Keenon, met with our entire team on Wednesday and went over the user stories via Google HangOuts, utilizing Miro as a platform to collaborate on ideas. He was very helpful and willing to answer any follow up questions, if needed.

Team Member Contributions

- Haya: User Story Tasks
- Matt: Organize User Stories, Implementation Plan
- Marc: User Story Tasks
- Ryan: User Story Tasks
- Shannon: UML Diagrams
- All: Create User Stories in meeting with customer, Strategy and Planning, Editing