Maintenance and Evolution Document

for

Pet MatchMaking Application

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1. Completed functionalities and testing issues

1.1. Overview

The current document intends to summarize the project scope, the completed features and product requirements, the extent to which they are deemed complete and tested, as well as to outline the possible improvements based on the long-term vision of the product and the main prospective user's expectations it is most likely to satisfy.

1.2. Completed features

1.2.1 Summary of product perspective and main focus

The incremented features fulfill the overall product perspective in the context of the gathered client's requirement and the features of similar web application solutions.

The product that is to be delivered at the end of the 3rd sprint has the following scope:

It represents a **social network** for pets and their owners. Its main focus is to help people establish communication on the basis of their love and affection towards pet-animals and build society of pets-lovers. There are 3 main directions to which the app is targeting:

- **matchmaking**, or finding the best pet-partner for users' pets, matching of interests;
- **meeting** with other people
- **help** - looking for help from other people or offering help to the latter

1.2.2 Completed features

The main completed features with regard to the above stated app's focus are as follows:

1. Customizing of user's profile and ability to edit and update it
2. Adding one or more pets, associated with the user's profile and ability to edit and update them or add more pets;
3. Adding requests defined by one of the above-described pillars (matchmaking, meeting, helping) and ability to associate them with one or more pets the user has added to his/her profile;
4. Responding to a request added by another user by liking it and leaving your details to the requested user
5. Leaving a rating to the user accepted the request and leaving a comment, which is then associated to his/her profile information
6. Search feature – by 2 criteria – location and type of request
7. Search results – 2 options – list view and map view

1.2.3 Tested features

During the finalized stages of the project the following functionalities were tested:

All of the above listed completed features are tested.

The following **testing levels** are performed:

- Component testing
- Integration testing
- System testing

The following **testing types** are performed:

- Functional testing
- Non-functional testing

The following **testing techniques** are used:

- Black-box Test Techniques → Use Case Testing

- Experience-based Test Techniques → Error Guessing

Although the testing is being properly planned and performed, the testing documentation is not complete as of delivering the current version of the product.

2. Future objectives and improvements vision

2.1. System features

This section corresponds to the long-term vision for the system to be built in order that the application is even more eligible to address the main product objectives. This vision will provide the context for making decisions throughout the course of the product development life cycle.

On the basis of the initial client's requirements for developing the app as well as on the possible app's niche positioning we would suggest the following features improvement and additional features development:

2.1.1 Existing features improvements:

The main completed features with regard to the above stated app's focus are as follows:

1. Further **enriching the scope of users' data**, including **pets' data** that users will be able to define in their profiles, e.g. breed of a dog, pet's age, pet's sex, etc.;
2. Further **enriching** and **systemizing** the **data** a user will be able to provide **for the requests** he/she publishes;

   For instance the users will be able to specify in the Help request feature whether he/she is looking for help with walking the dog, or he/she is going to a business trip and needs someone to feed the cat.
3. Further **development** of the **search** feature. Based on the enriched scope of users' data and requests data, the users will be able to customize to a higher extent the criteria by which they perform their searches.

   For instance the users will be able to search not only by location and type of request, but also by pet's species, whether for the help searched by a user a reward is being offered, whether the request is about help for walking a pet, sitting a pet of a user temporarily out of town, etc.
4. **Requiring Confirmation** when **deleting** a request. It will ensure a better user-experience.

2.1.2 Prospective features development:

1. **Customizing the** menus and sub-features of the different **types of requests** (MatchMake, Meet, Help), by adding special and more concrete characteristics of each of them, so that the search criteria could be more adequate;

   For instance in the MatchMaking requests, the users would be able to describe in more details the species and breed of the pet, the age of the pet, as well as other relevant characteristics.
2. **Mobile application development**. There are undisputable advantages a mobile app would bring to the table. Better personalization, ease of sending notification and the possibility of making use of the mobile device features are some of them.
3. **Login** with **Facebook** or **Google account** feature;
4. **In-built chat** into the app. When users can talk to one another, the product engagement is higher. Thus, users will be able to talk to one another as a way to answer each other's questions, specify details in requests they are interested in. This also allows users to keep a record of their interaction in the same place where they connect to the pet community. This is also a more effective way of building the very community, which will surely boost the app's usefulness and make it more distinguishable;
5. **Blog.** Users will be able to find answers to most of their general queries & concerns regarding their pet's health, care, grooming, behavior upbringing, diet etc. from by easily searching in the blog.

6. **Stores & Offers** section. Users will be able to find pet stores nearby and avail exciting offers from both online & offline stores.

3. Prospective Testing activities

3.1. Existing features testing:

The following test will be further performed and duly documented:

- at the level of **Acceptance** testing:
    - ➤ User Acceptance Tests for all the features will be performed – in order to verify if the beforehand tested specific requirements are working for the users as expected;
    - ➤ Operational acceptance testing → Testing of backup and restore
- **Functional** testing of the following features / requirements:
    - ➤ ID: FR24. Feature: Administrator log in;
    - ➤ ID: FR25 Feature: Manage animal species
- **Non-functional** testing of the following features / requirements:
    - ➤ ID: QR6 TAG: ResponseTime;
    - ➤ ID: QR7. TAG: UserLoginAccountSecurity
    - ➤ ID: QR8. TAG: AdminLoginAccountSecurity

3.2. Prospective features testing:

During the stages of the prospective features development, we will plan and perform the most necessary testing methods, covering all testing levels, observing the felicitous and most applicable test techniques.

The following test will be further performed and duly documented:

- **white-box tests**: as an intrinsic part of customization of the current features, for component integration testing, various tests will be designed to exercise how each screen in the browser interface passes data to the next screen and to the data flow logic:

- in connection with the **mobile app** development, all felicitous tests will be planned and performed and duly documented. Lots of **functional testing** in the first sprints will take place, connected with the checks if:
    - ➤ The application installs and launches correctly
    - ➤ The users can sign-up and login
    - ➤ Text boxes and buttons function properly
- we will also pay more attention to the non-functional testing of the system

4. Project Priorities

In the first place, we will put emphasis and prioritize the following objectives:

4.1. Complete the testing activities and elaborate the respective documentation

4.2. System features development as follows:

4.2.1 Existing features further improvement:

1. Further **enriching the scope of users' data**, including **pets' data** that users will be able to define in their profiles, e.g. breed of a dog, pet's age, pet's sex, etc.
2. Further **enriching** and **systemizing** the **data** a user will be able to provide **for the requests** he/she publishes;

    3.   Further **development** of the **search** feature

4.2.2   Prospective features further development:

1.   **Mobile application development**.
2.   **In-built chat** into the app

5. Pet MatchMaking Roadmap

Scaled DevNetTeam Roadmap – Pet MatchMaking Application

Feb.2020   Mar.2020   Apr.2020   May.2020   May.2020   July.2020

Epic 1 – Web App Version 1 increment

Completed features:

- Sign up & Login
- Manage profile
- Manage pets
- Search – list view
- Search – map view
- Respond to request
- Finish / Mark request as done
- Contact us

Epic 2 – Web App Features improvement

Objectives:

- **enriching** the scope of **users'** / pets' **data**;
- **enriching** and systemizing the **requests'** data;
- Further development of the **search** feature;

Epic 3 – Mobile App, Chat, Blog, Customize

Objectives:

- **Mobile app** development
- **In-built chat**
- **Blog;**
- **Customizing** the menus and sub-features of the **different types of requests**

Committed ————— *Forecast* —————