SwipeRight

Analysis

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RB03

Version 1

Preface

The complete analysis phase of the project SwipeRight can be found in this document. This file will evolve over time and can always be expanded upon.

Inhoud

1. Stakeholders

The stakeholders of the project are defined below.

Stakeholder	Description
Developer (me)	In this project, the developer is responsible for the product and everything involving the process.
Teachers	The teachers have a supporting role in this project. They give feedback and eventually grade the project.

2. Requirements

2.1 Functional Requirements

The functional requirements are defined below. These are ordered using the MoSCoW method and should be implemented accordingly.

N.	Description	MoSCoW
FR-01	Users must get other users recommended to them based on location and preferences	Must Have
FR-02	Users must be able to swipe recommended profiles to the left or right in order to accept or reject them	Must Have
FR-03	Users must be able to view their own profile	Must Have
FR-04	Users must be able to change preferences like distance, gender and age	Must Have
FR-05	Users must be able to view matches	Must Have
FR-06	Users must be able to edit their own profile	Must Have
FR-07	Users must be able to chat to matches	Must Have
FR-08	Users must be able to register an account	Must Have
FR-09	Users must be able to login with their credentials	Must Have
FR-10	Users must get a notification when they get a new match	Should Have
FR-11	Users must get a notification when they get a chat message	Should Have
FR-12	Users must be able to upload multiple pictures	Should Have
FR-13	Users must be able to view more details on a profile	Should Have
FR-14	Users must be able to send media (gifs, video's, images & music) to matches	Should Have
FR-15	Users must be able to toggle dark/light mode	Could Have
FR-16	Users must be able to integrate their socials (Instagram, TikTok or Spotify)	Could Have
FR-17	Users must be able to share a recommended profile	Could Have

2.2 Non-functional Requirements

The non-functional requirements are defined below.

N.	Description
NFR-01	Scalability in terms of a large user base
NFR-02	Security in terms of data
NFR-03	Compliance with GDPR *
NFR-04	Transparency concerning the process, research, design and data usage
NFR-05	Extensibility in terms of new features and applications
NFR-06	Performance (meaning low response times and efficient data usage)
NFR-07	Easy (automated) deployment and testing
NFR-08	Transferability and maintainability, making it convenient for someone to continue the project

* compliance with GDPR means the following:

- *Identity information of a person should be shielded from account information*
- *Users are able to request the removal of their personal data*
- *Users can request the transfer of their personal data*
- *In case of a data breach a report must be made within 72 hours/*
- *Privacy should be the default setting*
- *Consent should always be asked when it comes to asking for personal data, checkboxes should be initially unchecked*

3. Use Cases

The use cases are defined below.

UC01	Profile Recommendations
Actor(s)	User
Basic Flow	A screen displays recommended profiles to the current user based on based on location and preferences
Alternative Flow 1	There is no connection to the internet, so recommendations can't be fetched
Alternative Flow 2	There are no users of the app in a specified location radius, so no recommendations are displayed to the user
Result	The user is able to view profiles

UC02	Swiping Profiles
Actor(s)	User
Basic Flow	The user swipes a recommended profile to either the left or right in order to accept/reject
Alternative Flow 1	There is no connection to the internet, so no data can be send or received
Result	The user is able to like/dislike profiles

UC03	View Profile
Actor(s)	User
Basic Flow	The user is able to view his/her own profile
Result	The user views his/her own profile

UC04	Edit Preferences
Actor(s)	User
Basic Flow	A user edits preferences like distance, gender and age on a settings interface
Result	The user has changed preferences which causes the recommendation system to now use these new preferences

UC05	View Matches
Actor(s)	User
Basic Flow	A user views his/her matches
Alternative Flow 1	The user does not have any matches, the system responds with a message urging the user to start swiping
Result	The user sees the others users that have mutually swiped right

UC06	Edit Profile
Actor(s)	User
Basic Flow	A user wants to edit his/her profile (e.g. biography, university, location, anthem & hobbies).
Result	The updates have been registered by the system

UC07	Chatting with matches
Actor(s)	User
Basic Flow	A user wants to start a chat with a match and sends a greeting message.
Alternative Flow 1	The user has been unmatched, all previous chat messages are removed and none can be send anymore.
Alternative Flow 2	The user unmatched someone, all previous chat messages are removed and none can be send anymore.
Alternative Flow 3	There is no internet connection, the chat message is being hold in a queue until there is a connection again.
Result	A chat between two matches has been established

UC08	Registering an account
Actor(s)	User
Basic Flow	A user wants to set-up an account so he/she can use SwipeRight
Alternative Flow 1	The user is not yet 18+ and gets denied by the system
Result	The user has successfully created an account

UC09	Logging in
Actor(s)	User
Basic Flow	A user wants to login to SwipeRight to use it
Alternative Flow 1	The user has been suspended for violating the terms of service and gets denied access by the service
Result	The user has successfully logged in and has been granted access to SwipeRight

UC10	New Match Notification
Actor(s)	User
Basic Flow	The user has just been matched with someone and receives a message notifying him/her of this event
Alternative Flow 1	The user doesn't have an internet connection and the notification shows when there is a connection again
Result	The user views a notification informing him/her that he/she has a new match

UC11	New Message Notification
Actor(s)	User
Basic Flow	The user has just gotten a new message from one of his/her matches and receives a notification
Alternative Flow 1	The user doesn't have an internet connection and the notification shows when there is a connection again
Result	The user views a notification informing him/her that he/she has a new message

UC12	Uploading Pictures
Actor(s)	User
Basic Flow	The user wants to upload pictures to his/her profile
Alternative Flow 1	The images are too large (in terms of storage) and are therefore denied
Result	The user has successfully upload pictures to his/her profile

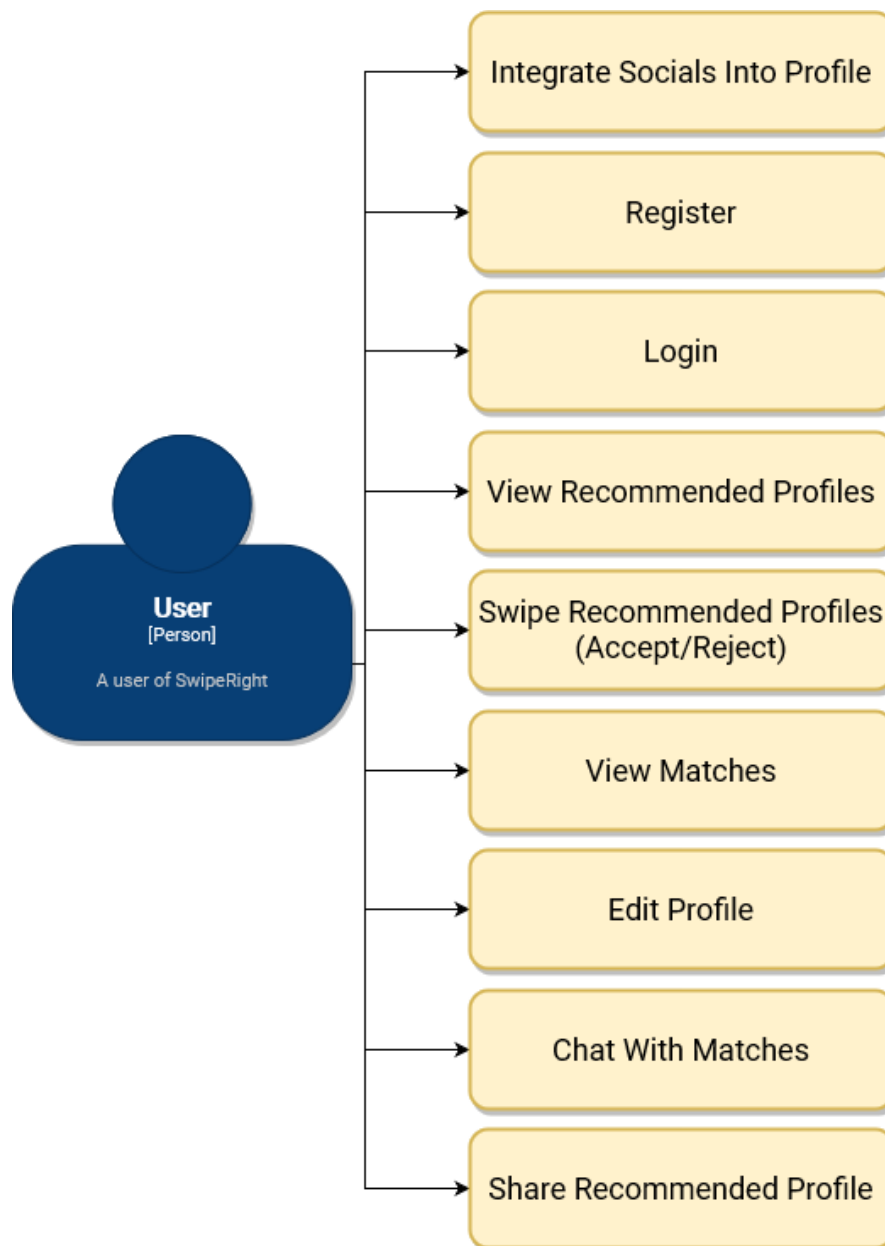| UC13	More Details
Actor(s)	User
Basic Flow	When a user is viewing a recommended profile, not every single details is displayed. The user indicates he/she wants to view more details on the profile.
Result	The user is shown more details on a recommended profile

UC14	Sending Media In Chat
Actor(s)	User
Basic Flow	When a user is chatting with a match, he or she wants to send an image
Alternative Flow 1	The media is too large (in terms of storage) and is therefore denied
Result	The user has successfully send an image to a match

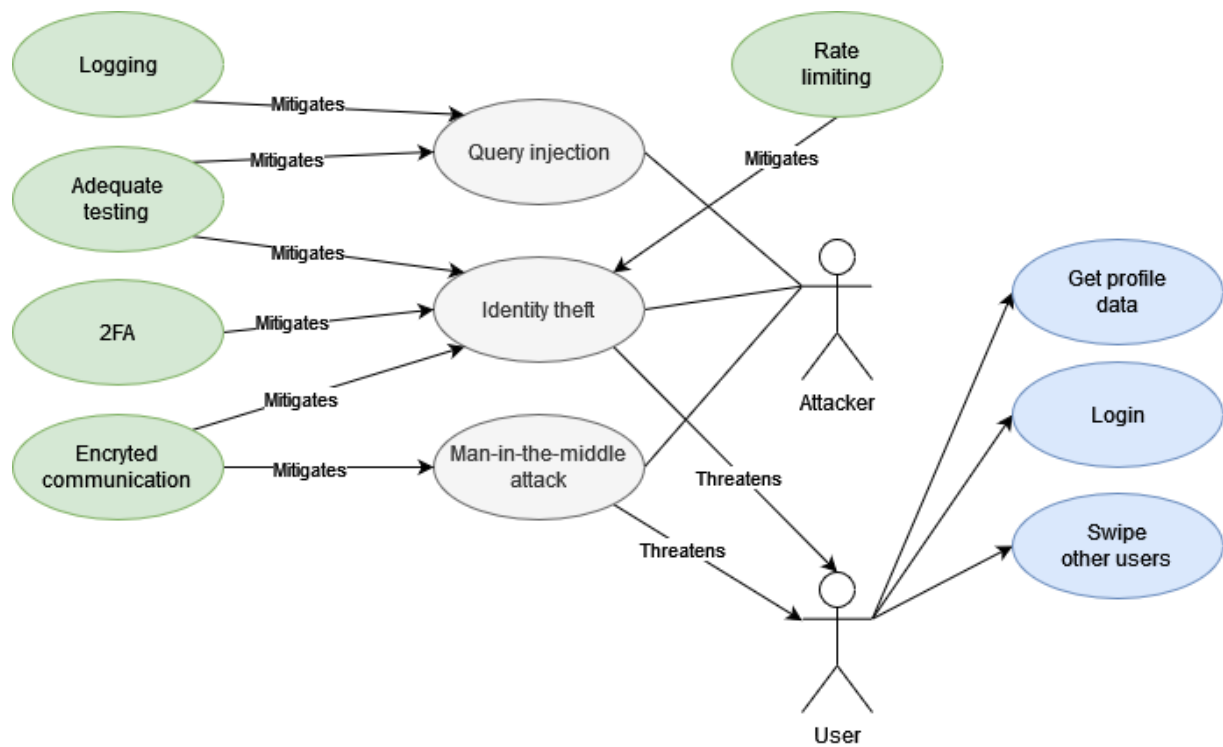| UC15	Toggle Light/Dark Mode
Actor(s)	User
Basic Flow	The user prefers viewing the interface in dark mode and selects this under preferences
Result	The user has turned the interface to a dark color scheme

UC16	Integrate Socials
Actor(s)	User
Basic Flow	The user wants to connect Spotify and Instagram to his profile in order to make the profile more personal
Result	The user's profile now shows his/her Spotify & Instagram when being recommended to another user

UC17	Sharing A Recommended Profile
Actor(s)	User
Basic Flow	The user wants to show off a recommended profile to his/her friends
Alternative Flow 1	The user behind the recommended profile has explicitly indicated that his/her profile should not be available for sharing
Result	The system has generated and made available a link which can be shared to other users of SwipeRight, so they can view the profile

4. Use Case Diagram

5. Misuse Case Diagram

6. Wireframes

The wireframes define the structure of the eventual UI.

Swipe Profiles

Matches

Chat

Register or Login

Profile

Settings