Software Requirement Specification

Structure:

1. Aim of the document
2. Overview of the defined system
3. HW and SW requirements
4. Related systems (at least 2), pros and cons.

1. Aim of the document

The aim of the document is to define functional and non-functional specifications of this software called NightPlan. It will provide a vision of the features and discrepancies between final project and initial prototype, serving as a reference for the developers, testers and project stakeholders. It will also provide the fundamental hardware and software requirements of NightPlan software. In this document, there is also the link to our SonarCloud dashboard in which you can access our GitHub repository and from which you can view the analysis of bugs, smells, security vulnerabilities in the software and how they were fixed throughout the development of the entire project. The source code and all other deliverables can be found in this .zip folder.

2. Overview of the defined system

NightPlan is a desktop standalone application designed to help people find events near them and make new friends. The application allows users to browse all organized events in their city using one single platform. In addition, this application allows event organizers to reach a wide range of people without the need to share their events through other platforms, such as social media, webpages or tv.

3. Hardware and software requirements
   The basic hardware requirements of the system are a computer that can run JAR files, as well as some space in the disk to save a local database in .csv format and some .txt export files. Moreover, software requirements are Oracle or Open JDK SE 21 correctly installed on your computer and MySQL installed to run the local application DBMS.

4. Related systems, pros and cons
   Meetup: This platform allows users to organize and participate in events based on their interests. Users can join specific groups and participate in events organized by those groups. Instead, NightPlan allows users to participate to all events organized in their city.

   Eventbrite: Is an event management platform that allows organizers to create and promote events, as well as users to discover and participate in local and online events. While Eventbrite doesn't permit to create groups, NightPlan allows users to create groups in which they can chat get to know each other.

Use cases

Nicolas Oberi: Plan event participation

Matteo Trossi: Create event

Discrepancies

- **Nicolas Oberi**
  1. UseCaseSteps:

     The system doesn't ask the user to participate.
     They system doesn't ask the user to create or join a group right after participating to the event.

  2. Activity Diagram:

     Confirm event participation doesn't happen with confirmation link via email.

  3. State Diagram:

     After event confirmation the user isn't immediately asked to create or join the event group.

- **Matteo Trossi**
  4. Use Case Steps:

     Google Maps non utilized to check address correctness.

  5. Activity Diagram:

     Address correctness isn't verified.

The form doesn't auto close after 1 minute.

6. State Diagram:

Confirmation page doesn't exist after confirmation form.
After confirmation page there is no event recap, in the application we immediately go to "your events" page.

7. Storyboards:

Filters and bookmarks missing in user settings.

Design patterns

Nicolas Oberi: Observer pattern

Matteo Trossi: Factory method pattern

Sonarcloud dashboard

https://sonarcloud.io/summary/new_code?id=Trossi-Oberi_ispwproject-2324