

# Software Requirements Specification

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Project 1: Group Matching App

COP 4331, Fall 2021

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## Contents of this Document

### Introduction

- Software to be Produced
- Applicable Standards

### Definition, Acronyms, and Abbreviations

### Product Overview

- Assumptions
- Stakeholders
- Event Table
- Use Case Diagram
- Use Case Descriptions

### Specific Requirements

- Functional Requirements
- Interface Requirements
- Physical Environment Requirements
- Users and Human Factors Requirements
- Documentation Requirements
- Data Requirements
- Resource Requirements
- Security Requirements
- Quality Assurance Requirements

### Supporting Material

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## Section 1: Introduction

Software to be Produced:

- myMeet will be a web-hosted Java application with an attached MySQL database. It will allow users to connect with other users, create and join groups, as well as create and join events.

#### Applicable Standards

- It will exclusively run on a web browser
- All other standards used are in the Project Management Plan

#### Definitions, Acronyms, and Abbreviations

- None

### Section 2: Product Overview

#### Assumptions:

- Users are 18 or older
- All modules (database, website, and application) are compatible

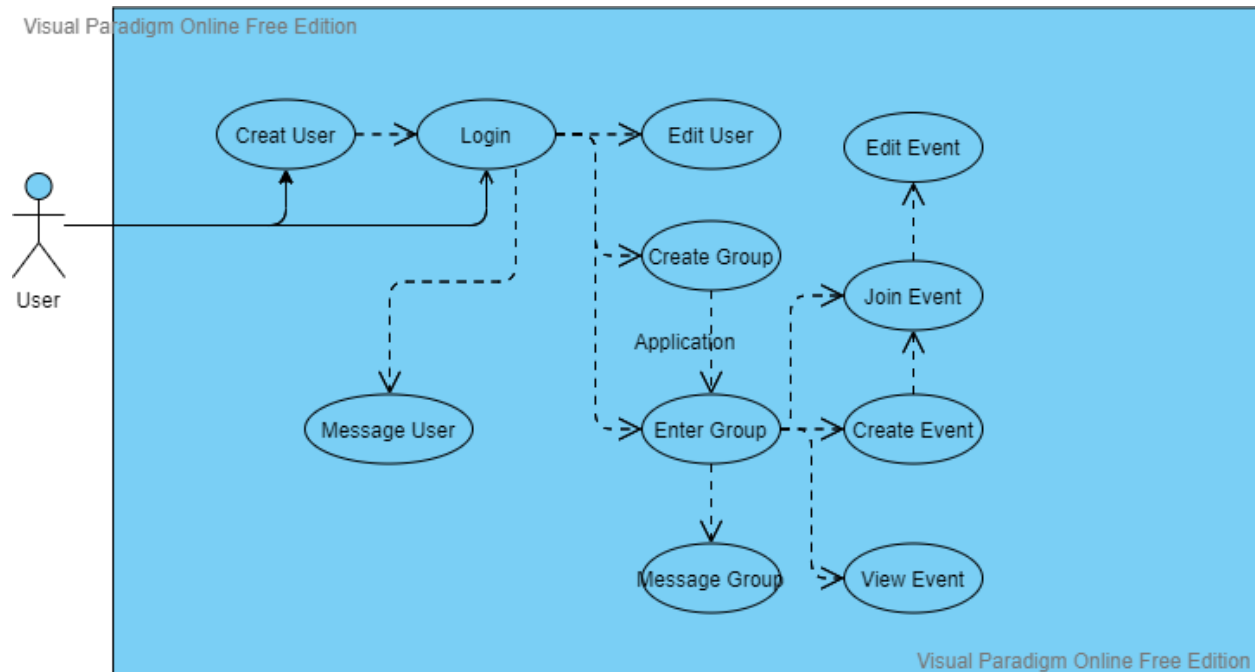
#### Stakeholders:

- Users: will be using the application
- Programming team: will need to have a functioning program to receive a grade
- Professors/TAs: will receive the program and provide grades to the programming team

#### Event Table:

Event Name	External Stimuli	External Responses	Internal data and state
Create user	User creates profile	Confirmation of creation	Add to table
Delete user	User deletes user	Confirmation of deletion	Drop from table
Create group	User create group	Confirmation of creation	Add to table
Delete group	User deletes group	Confirmation of deletion	Drop from table
Create event	User creates event	Confirmation of creation	Add to table
Delete event	User deletes event	Confirmation of deletion	Drop from table

#### Use Case Diagram



Use Case Descriptions:

- Create user
- Login
  - Once users log in, they have access to all normal functions of the program

### Section 3: Specific Requirements

No: 1
Statement: Users shall be able to manage profiles
Source: Basic functionality
Dependency: User must have a valid account or be able to create one
Conflicts: None
Supporting Materials: Above
Evaluation Method: User is able to influence the database
Revision History: n/a

No: 2
Statement: Users shall be able to manage groups
Source: Basic functionality
Dependency: User must have a valid account
Conflicts: None
Supporting Materials: Above
Evaluation Method: User is able to influence the database
Revision History: n/a

No: 3
Statement: Users shall be able to manage events
Source: Basic functionality
Dependency: User must have a valid account and be a part of a group
Conflicts: None
Supporting Materials: Above
Evaluation Method: User is able to influence the database
Revision History: n/a

### 3.1 Functional Requirements

- Sanitize text inputs, reject bad words
- Arrest spam attempts
- Allow users to create, manage, and delete profiles, groups, and events

### 3.2 Interface Requirements

- Read and write to/from the database via the website (timing/sync issues not present)

- Data will be accurate to the latest refresh
- Information that comes as a result of user interaction with the application will accordingly be updated in the database

### 3.3 Physical Environment Requirements

- Java application will be hosted on a website, which will be hosted on a third-party hosting service
- Database will be hosted on Eustis

### 3.4 User and Human Factors Requirements

- System will support one class of user (substate for administration of groups)
- Simple users, assumed average skill level
- Simple how-to page on how to use myMeet
- Accessibility options will be through the user's own browser and OS
- System will detect and arrest spamming attempts (e.g. creating multiple users, groups, events)
- System will only allow registration of those at or above the appropriate age

### 3.5 Documentation Requirements

- Simple online page on how to use myMeet
  - Users assumed to be an average social media user (any age)
  - Web page (or PDF on web page) hosted to show normal functions of the application
    - How to interact with other users
    - How to interact with groups
    - How to create and administrate groups
    - How to interact with events
    - How to create and administrate events

### 3.6 Data Requirements

- Interest matching arithmetic will need to be defined at some point

### 3.7 Resource Requirements

- Team of 4 developers to build and maintain
- Communal spaces on the UCF campus will be used for physical meetings
- Discord will be used for virtual communication
- No monetary funding
- Open-source software
- Completed by end of semester, fall 2021

### 3.8 Security Requirements

- Database must not be accessible by users or third parties
  - Only official requests (e.g. by the program or by developers)

- Sensitive information (e.g. passwords) will be hashed
- Users will be isolated from other users, only able to make requests to the program for the program to read/write the database
- Users will have security questions and answers for resetting a password
- Daily backups stored onsite
- Weekly backups stored offsite

### 3.9 Quality Assurance Requirements

- Functionality above all else
- Concurrent same user logons will kick the oldest user logged in
- Hard user timeouts
- Weekly downtime for maintenance
- Reliability and security will be project goals

## Section 4: Supporting Material

- None