

# Software Requirement Specification

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10/16/20

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## Revision History

Version	Editors	Date
v1.0	Corbin Robinson, Ethan Smith, Parker Rosenberg	10/16/20

## 1. Introduction:

1.1. Purpose: The purpose of this document is to outline the board game recommender, which provides a way for users to get board game recommendations, via a web server.

### 1.2. Conventions:

Uwsgi: a web hosting service.

Django: a python web framework

Python: the primary programming language being used for the product

1.3. Intended audience: The intended audience for this project is anyone who enjoys board games, and has played more than 3 different board games, and would like to find more, similar board games.

## 2. Overall Description

2.1. Product description: The application will be built on Nginx, django, and uwsgi, using python. It will be installable on any unix based server.

2.2. Product features: It will essentially take one or more board games as input and give back games with similar mechanics, difficulty, or theme.

2.3. Operating environment:  
Django Web application

Sqlite database hosting

Nginx forward proxy

Linux host machine

2.4. Constraints: Requires internet connection. Requires database connection.

2.5. User documentation: Documentation will be provided on a page in the website.

2.6. Assumptions and dependencies: n/a

## 3. System Features

### 3.1. Functional requirement 1

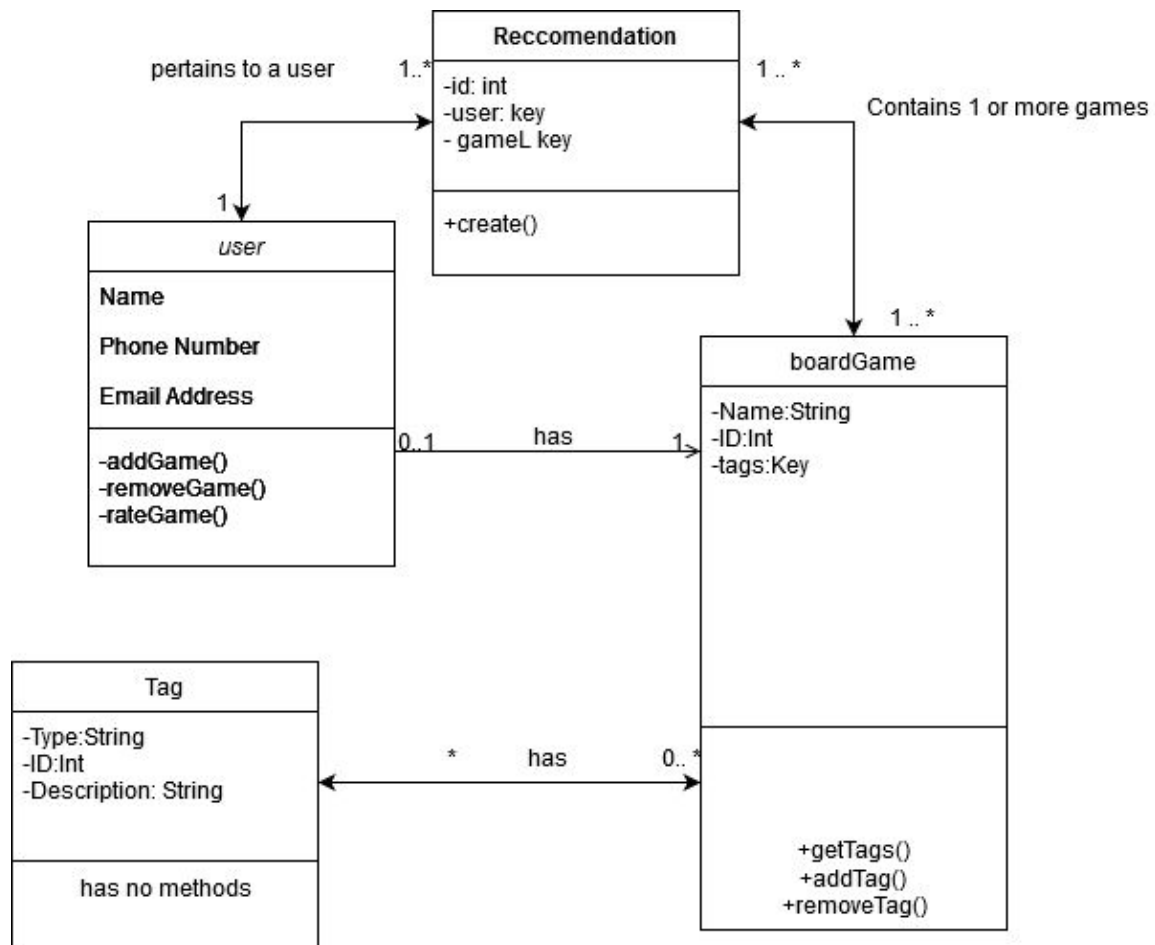
3.1.1. Must accept 1 or more board games as input and recommend 1 or more board games based on mechanics, theme, or difficulty.

3.1.2. Stimulus: user inputs 1 or more board games by selecting games from a drop down menu or by searching them with a text box  
Response: system displays 1 or more board games that are related in a given way.

3.1.3. Functional requirements

- 3.1.3.1. If a user selects to have recommendations based on mechanics, the system will return based on mechanics.
    - 3.1.3.2. If a user selects to have recommendations based on theme, the system will return based on theme.
    - 3.1.3.3. If a user selects to have recommendations based on difficulty, the system will return based on difficulty.
    - 3.1.3.4. If a user selects to have recommendations based multiple attributes, the system will return based on those attributes.
  - 3.2. Functional requirement 2 (*this is a secondary goal requirement*)
    - 3.2.1. A user should be able to log into an account if they enter the username and password correctly
    - 3.2.2. Stimulus: user inputs username/password correctly into corresponding text boxes  
Response: systems gives user access to account matching the username/password given
    - 3.2.3. Functional requirements
      - 3.2.3.1. Regular user logon
      - 3.2.3.2. Admin logon
  - 3.3. Functional requirement 3
    - 3.3.1. The system should display an error message when a user enters an incorrect username/password
    - 3.3.2. Stimulus: user inputs username/password incorrectly into corresponding text boxes  
Response: system displays error message in the login box
  - 3.4. Functional requirement 4
    - 3.4.1. Users will make their selections by choosing from a drop down list or by searching for a game they like.
      - 3.4.1.1. Drop downs or search bars for all the attributes listed above:
        - Mechanics
        - Theme
        - Difficulty
        - Multiple attributes
        - (maybe a star-based system if our stretch goals are reached.)
- 4. Nonfunctional Requirements
  - 4.1. Board game database contains at least 20 board games
  - 4.2. WebApp works on Google Chrome and FireFox

## Appendix A



## Appendix B

