***Software Engineering***

***Software Requirements Specification***

***(SRS) Document***

**Progress**

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**V1**

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**I have abided by the UNCG Academic Integrity Policy on this Assignment**

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# Introduction

## Purpose

[The goal of your project and the objectives it wishes to accomplish]

The goal of Progress is to allow gym users of all abilities to have a community which is easily accessible that acts as a catalyst to help everyone to progress in their fitness journey. Users can talk to one another; ask whatever questions they may have and use the knowledge of others and what they do to adjust their routine to reach the goals that they have set themselves quicker and more efficiently.

Another big goal of Progress is to encourage beginners who may have been to the gym previously but been intimidated or people who have never been before to go to the gym and by having this software available it will show these users to speak to other people who go to the gym thus allowing them to have a easier time when they begin the gym as they have been able to ask questions and get to know people prior to going.

## Document Conventions

[Full description of the main objectives of this document in the context of your project.

Here’s how you should begin this section:

“The purpose of this Software Requirements Document (SRD) is to...”

“In it, we will . . ., . . ., and . . ..”]

The purpose of this Software Requirements Document (SRD) is to explain and portray the features and functions that will be within the gym social media platform “Progress”. In the application we aim to include the following features and functions:

* Private messaging between users of the platform
* Users creating different posts, be these questions, videos
* Users can react to other users posts and comment on them
* Certain users can publicize their services (for example personal training appointments)
* A level system for the users (beginner, intermediate, advanced) to distinguish what roles and features they have available to them on the application.

## Definitions, Acronyms, and Abbreviations

[Include any specialized terminology dictated by the application area or the product area.

For example:]

|  |  |
| --- | --- |
| Java | A programming language originally developed by James Gosling at Sun Microsystems. We will be using this language to build the Restaurant Manager. |
| MySQL | Open-source relational database management system. |
| .HTML | Hypertext Markup Language. This is the code that will be used to structure and design the web application and its content. |
| SpringBoot | An open-source Java-based framework used to create a micro-Service. This will be used to create and run our application. |
| MVC | Model-View-Controller. This is the architectural pattern that will be used to implement our system. |
| Spring Web | Will be used to build our web application by using Spring MVC. This is one of the dependencies of our system. |
| Thymeleaf | A modern server-side Java template engine for our web environment. This is one of the dependencies of our system. |
| NetBeans | An integrated development environment (IDE) for Java. This is where our system will be created. |
| API | Application Programming Interface. This will be used to implement a function within the software where the current date and time is displayed on the homepage. |

## Intended Audience

[Describe which part of the SRS document is intended for which reader. Include a list of all stakeholders of the project, developers, project managers, and users for better clarity.]

Stakeholders

* Gym Users
* Gym Owners
* Personal Trainers
* UI/ UX Designers
* Software Engineers
* Project Manager

SRS Document and Readers

1. Introduction – UI/UX Designers, Software Engineers & Project Manager
2. General Description - UI/UX Designers, Software Engineers & Project Manager
3. Functional Requirements – UI/UX Designers & Software Engineers
4. Technical Requirements – UI/UX Designers & Software Engineers
5. Non-Functional Requirements - Software Engineers
6. Design Documents – Software Engineers
7. Scenario - UI/UX Designers & Software Engineers

## Project Scope

[Specify how the software goals align with the overall business goals and outline the benefits of the project to business.]

The goal of the software is to provide a new environment to users that can use it as a source of information for everything related to fitness and personal development. The environment will contain an easy-to-use UI with UX at the forefront and simple to use features. This aligns with the overall business goals of a social media platform as these platforms would fail if the purposes of the intended software are difficult to use with a confusing design therefore resulting in a rapid decline in users and no to minimal activity on the software.

The benefits of the project to business include:

* In helping alleviate the stress new gym goers face when thinking about starting the gym, this software should hopefully increase the intake gyms due to removing this fear.
* Not only will this software help people get into the gym but will also expose them to everything that goes hand in hand with the gym such as dieting, supplements and other physical activities, thus helping other industries by exposing these products to a wider audience.
* By promoting all of these industries on the software this then opens up the option for the software to take advantage of advertisements as an avenue of profiting from the platform.

## Technology Challenges

[Any technological constraints that the project will be under. Any new technologies you may need to use]

For the posting aspect of the prospective software a user may refresh the page so any new posts that may have been posted in that time will have to be shown, so one technical requirement may be to be able to live update the application when its running to ensure that the user is able to view the most up to date content.

## References

[Mention books, articles, web sites, worksheets, people who are sources of information about the application domain, etc. Use proper and complete reference notation. Give links to documents as appropriate. You should use the APA Documentation model (Alred, 2003, p. 144).]

# General Description

## Product Perspective

[Describe the context and origin of the product.]

-It’s far easier to keep motivated about personal health and fitness when surrounded by a community of like-minded individuals. That’s where Progress as a concept shines. By providing a platform for new and experienced users to ask questions and find help, it promotes greater health among all its users.

## Product Features

[A high-level summary of the functions the software would perform and the features to be included.]

-The product features include the ability for all users to ask questions, and for intermediate and advanced users to answer questions from users of lower levels than their own. All users will also have the ability to request a workout partner of a given proficiency level, or respond to a partner request. Intermediate users will be able to upload their workout splits and advanced users will be able to upload their meal plan. Specially marked accounts for certified personal trainers with be able to upload training videos and will have specific support to advertise their services. Finally, gyms will be able to give updates and news, and they will have the ability to set dates for special classes and events occurring at the gym.

## User Class and Characteristics

[A categorization and profiling of the users the software is intended for and their classification into different user classes]

-While little technical knowledge will be required to operate our application, likely just the ability to operate a computer and run a web browser, the app does sort users by proficiency level. Users of any level of experience level should be supported on the platform, however certain features will be locked off till they prove a level of competency in health and fitness. Likewise, proof of certification, and proof of ownership will be required to be recognized as a personal trainer or gym owner, respectively.

## Operating Environment

[Specification of the environment the software is being designed to operate in.]

-As a web application, Progress should be able to run on a wide variety of devices, such as PC or Mobile.

## Constraints

[Any limiting factors that would pose challenge to the development of the software. These include both design as well as implementation constraints.]

?

## Assumptions and Dependencies

[A list of all assumptions that you have made regarding the software product and the environment along with any external dependencies which may affect the project]

? The software will be dependent on Spring Web and Thymeleaf in order to create and execute the MVC architecture that will be developed within NetBeans. It will also be dependent on the YouTube Data API in order to upload and display training videos.

# Functional Requirements

[Statements of services the system should provide, how the system should react to particular inputs and how the system should behave in particular situations.]

## Primary

[All the requirements within the system or sub-system in order to determine the output that the software is expected to give in relation to the given input. These consist of the design requirements, graphics requirements, operating system requirements and constraints if any.]

* Facilitate communication and collaboration between users of different fitness levels in a gym environment.
* Provide a messaging system for private conversations between users.
* Provide public posts for sharing tips and progress.
* Offer social sharing features for achievements.
* Allow users to publicize personal training services.
* Provide different features based on the user's fitness level.
* Be designed to reduce the intimidation felt by new gym users and encourage engagement with fitness.

## Secondary

[Some functions that are used to support the primary requirements.]

* A secure login and user authentication system.
* A user profile page, displaying information about the user's fitness level and preferences.
* A dashboard page, displaying relevant information to the user, such as workout routines, goals, and progress tracking.
* A search function for finding workout partners, based on criteria such as fitness level, location, and availability.
* A notification system for new messages, posts, and updates on progress.
* An administrative system for managing user data, including the ability to delete user accounts if necessary.

# Technical Requirements



## Operating System and Compatibility

[The environments that will be needed to operate the system]

The operating system and compatibility requirements for the "Progress" platform must support a wide range of devices and browsers to ensure maximum accessibility and usability for all users. The platform must be compatible with popular web browsers such as Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge on desktops, laptops, and mobile devices.

## Interface Requirements

### User Interfaces

The UI should be intuitive, accessible, and visually appealing. It should have a simple layout, clear navigation, and fast loading times. The platform should encourage social interaction, allowing users to create and share workout plans, training tips, and fitness challenges. It should be customizable, allowing users to track their progress and set fitness goals.

### Hardware Interfaces

The "Progress" platform does not require any specific hardware interface. As a web-based platform, it can be accessed through any device with an internet connection and a web browser. However, to fully utilize the platform's features, it is recommended that users have access to a device with a stable internet connection, a display with high resolution, and sufficient processing power to ensure a smooth user experience.

### Communications Interfaces

The communication standards to be utilized by the "Progress" platform include HTTPS for secure data transmission, OAuth 2.0 for user authentication, and REST API for interaction between the front-end and back-end components of the platform. Additionally, the messaging system should be designed to handle large amounts of data and support multimedia content such as images, videos, and audio files. Overall, the communication standards should be robust, reliable, and secure to provide a seamless and safe user experience.

### Software Interfaces

The software interface for the "Progress" platform should be designed using React and Thymeleaf for the front-end, and JPA for the back end, with Spring Boot as the connecting framework. The front-end should be responsive, providing a seamless user experience across different screen sizes. The back end should store user data securely using JPA, and follow standardized architecture and coding practices to ensure maintainability and scalability. RESTful APIs should be used to enable communication between the front-end and back-end.

# Non-Functional Requirements

[Constraints on the services or functions offered by the system (e.g., timing constraints, constraints on the development process, standards, etc.). Often apply to the system as a whole rather than individual features or services.]

## Performance Requirements

[The performance requirements need to be specified for all the functional requirements.]

* NFR0(R): The local copy of the vehicle violation database will consume less than 20 MB of memory
* NFR1(R): The system (including the local copy of the vehicle violation database) will consume less than 50MB of memory
* NFR2(R): The novice user will be able to create and print a ticket in less than 5 minutes.
* NFR3(R): The expert user will be able to create and print a ticket in less than 1 minute.

## Safety Requirements

[List out any safeguards that need to be incorporated as a measure against any possible harm the use of the software application may cause.]

## Security Requirements

[Privacy and data protection regulations that need to be adhered to while designing of the product.]

* The software only asks for relevant user personal data, not excessive or unnecessary.
* The software is only able to be accessed by users with an account.
* The software only asks for the permissions that are required

## Software Quality Attributes

[Detailing on the additional qualities that need to be incorporated within the software like maintainability, adaptability, flexibility, usability, reliability, portability etc.]

### Availability

The software needs to be able to cope and deal with any possible errors/ flaws that it may encounter, so therefore error catching will need to be implemented into relevant sections as to ensure that an error does not break the software. Additionally, sufficient testing will need to take place as to identify areas where errors occur to then correct these.

### Correctness

The software will need to perform the exact tasks/ processes that we have defined in this document.

### Maintainability

The software will need to be able to updated and improved as time progresses, once the software is released then users may have ideas and suggestions to improve the product be this informing about bugs and problems or features that they want to have added to provide a better service. Therefore, the code of the software needs to be able to be added to easily in order for this to be a possibility.

### Reusability

Using code that is already available. Such as code libraries and APIs. Also by splitting the code created into different modules and sections as so that it can be used by multiple areas of the software, thus bringing down cost and time.

### Portability

The software will initially be created using a web platform and will be designed initially as a desktop product, the software will be responsive in order to fit to different sized screens in order to maximize the number of devices that it can be clearly viewed on. In the future in order to maximize portability the product will be adapted into a mobile application as this will allow for a larger number of users to use the platform.

## Process Requirements

### Development Process Used

[Software Process Model]

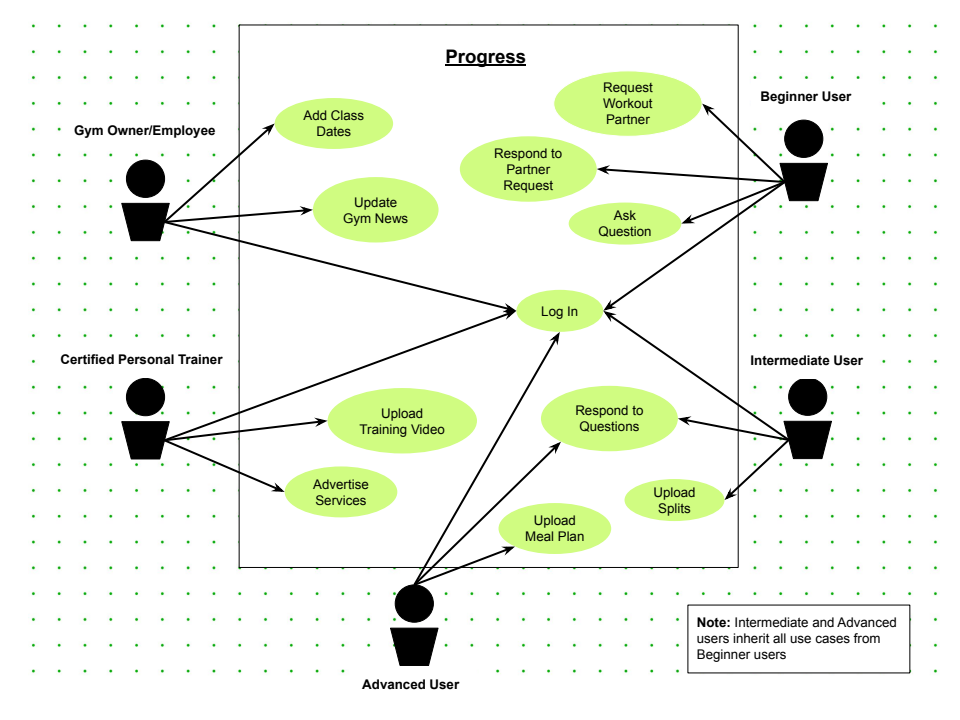
### Time Constraints

### Cost and Delivery Date

## Other Requirements

TBD

## Use-Case Model Diagram



## Use-Case Model Descriptions

## Actor: Beginner user

* **Request Partner:** User can send a request to match up with a workout partner
* **Respond to Partner Request**: User can respond with yes or no to a request they’ve received
* **Ask Question:** User can ask a question related to working out
* **Login:** User can log in with their own credentials

### Actor: Intermediate User

* **Request Partner:** User can send a request to match up with a workout partner
* **Respond to Partner Request**: User can respond with yes or no to a request they’ve received
* **Ask Question:** User can ask a question related to working out
* **Login:** User can log in with their own credentials
* **Respond to Questions:** User can provide their answer to an open question from another user
* **Upload Splits: User can upload their very own workout that they’re following for other users to view**

### Actor: Gym Owner

* **Add Class Dates**: User can add dates for specific classes for the gym
* **Update Gym News**: User can add news about the gym for other users to see
* **Login:** User can log in with their own credentials

**5.8.4 Actor: Advanced User**

* **Has the same functions as both the beginner and intermediate**
* **Answer questions: To those asked by both beginner and intermediate and also other advanced.**
* **Upload meal plan: Can upload their meal plan with nutritional info and pictures for other users to gain inspiration from.**

## Use-Case Model Scenarios

* + 1. **Actor: Beginner User**
* **Use-Case Name**: Request Workout Partner
* **Initial Assumption**: The user has a function that can send a request to another user to be partners.
* **Normal**: The user will go to another’s profile and use a button that will send a request to partner up.
* **What Can Go Wrong:** The request can be denied due to the other user’s privacy settings.
* **Other Activities**: The user can request to follow/befriend the user so the request will be allowed.
* **System State on Completion**: The two users are now partners. They can view this from either of their profiles.

**Use-Case Name**: Respond to partner request

* **Initial Assumption**: The user has an inbox, in which a request to partner is contained. They are prompted to accept or deny the request.
* **Normal**: The user will choose to accept or deny the request.
* **What Can Go Wrong**: They could choose the wrong option
* **Other Activities**: They can simply go to the other user’s profile and send a request back.
* **System State on Completion**: The user will be awaiting the response of the other user.

**Use-Case Name**: Log in

* **Initial Assumption**: The user has an account to login to the system. The account is stored in the database.
* **Normal**: The user enters a name and password to login to the account.
* **What Can Go Wrong**: The user may enter the wrong password or forget theirs.
* **Other Activities**: The user can use a “forgot password” function to reset their password.
* **System State on Completion**: The user is logged in to their account. They can view other accounts and see their front page.

**Use-Case Name**: Ask Question

* **Initial Assumption**: The user can post a question or ask for advice on a discussion board.
* **Normal**: The user types out their question and posts it to the board.
* **What Can Go Wrong**: The user gets no response to their question.
* **Other Activities**: The user can choose to repost so that people have another chance to see the question.
* **System State on Completion**: The user’s question is posted on the discussion board for other users to see.
  + 1. **Actor: Intermediate User**

**Use-Case Name**: Request Workout Partner

* **Initial Assumption**: The user has a function that can send a request to another user to be partners.
* **Normal**: The user will go to another’s profile and use a button that will send a request to partner up.
* **What Can Go Wrong:** The request can be denied due to the other user’s privacy settings.
* **Other Activities**: The user can request to follow/befriend the user so the request will be allowed.
* **System State on Completion**: The two users are now partners. They can view this from either of their profiles.

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* **What Can Go Wrong**: The user gets no response to their question.
* **Other Activities**: The user can choose to repost so that people have another chance to see the question.
* **System State on Completion**: The user’s question is posted on the discussion board for other users to view.

**Use-Case Name**: Respond to Question

* **Initial Assumption**: User can see a question on the discussion board and choose to answer it or comment.
* **Normal**: The user types their answer and posts it to the board.
* **What Can Go Wrong**: The user mistypes in their answer, so their answer is misunderstood.
* **Other Activities**: User can choose to edit any of their past posts.
* **System State on Completion**: The user’s answer is posted correctly to the discussion board for other users to view.

**Use-Case Name**: Upload Split

* **Initial Assumption**: User can upload a workout split for other people to see and download.
* **Normal**: The user creates their workout split and posts it to the feed/ their profile.
* **What Can Go Wrong**: The user decided to change their workout so the one they posted is incorrect.
* **Other Activities**: User can opt to post new split, or edit the existing one.
* **System State on Completion**: The user’s split is now posted for other users to view and download.

3. Actor: Advanced User

**Use-Case Name**: Request Workout Partner

* **Initial Assumption**: The user has a function that can send a request to another user to be partners.
* **Normal**: The user will go to another’s profile and use a button that will send a request to partner up.
* **What Can Go Wrong:** The request can be denied due to the other user’s privacy settings.
* **Other Activities**: The user can request to follow/befriend the user so the request will be allowed.
* **System State on Completion**: The two users are now partners. They can view this from either of their profiles.

**Use-Case Name**: Respond to partner request

* **Initial Assumption**: The user has an inbox, in which a request to partner is contained. They are prompted to accept or deny the request.
* **Normal**: The user will choose to accept or deny the request.
* **What Can Go Wrong**: They could choose the wrong option
* **Other Activities**: They can simply go to the other user’s profile and send a request back.
* **System State on Completion**: The user will be awaiting the response of the other user.

**Use-Case Name**: Log In

* **Initial Assumption**: The user has an account to login to the system. The account is stored in the database.
* **Normal**: The user enters a name and password to login to the account.
* **What Can Go Wrong**: The user may enter the wrong password or forget theirs.
* **Other Activities**: The user can use a “forgot password” function to reset their password.
* **System State on Completion**: The user is logged in to their account. They can view other accounts and see their front page.

**Use-Case Name**: Ask Question

* **Initial Assumption**: The user can post a question or ask for advice on a discussion board.
* **Normal**: The user types out their question and posts it to the board.
* **What Can Go Wrong**: The user gets no response to their question.
* **Other Activities**: The user can choose to repost so that people have another chance to see the question.
* **System State on Completion**: The user’s question is posted on the discussion board for other users to view.

**Use-Case Name**: Respond to Question

* **Initial Assumption**: User can see a question on the discussion board and choose to answer it or comment. Respond to beginner, intermediate and advanced
* **Normal**: The user types their answer and posts it to the board.
* **What Can Go Wrong**: The user mistypes in their answer, so their answer is misunderstood.
* **Other Activities**: User can choose to edit any of their past posts.
* **System State on Completion**: The user’s answer is posted correctly to the discussion board for other users to view.

**Use-Case Name**: Upload Split

* **Initial Assumption**: User can upload a workout split for other people to see and download.
* **Normal**: The user creates their workout split and posts it to the feed/ their profile.
* **What Can Go Wrong**: The user decided to change their workout so the one they posted is incorrect.
* **Other Activities**: User can opt to post new split, or edit the existing one.
* **System State on Completion**: The user’s split is now posted for other users to view and download.

Use-Case Name: Upload Meal plan

* Initial Assumption: User can upload their meal plan with relevant nutritional info for other users to see download and implement into their routine.
* Normal: The user creates their meal plan and uploads it to their profile
* What can go wrong: User can accidently input the incorrect dietary information
* Other activities: Users can update and edit their meal plans they previously posted
* System state on completion: The user’s meal plan is now available for other users to view and download.

4. **Actor: Gym Owner**

* **Use-Case Name**: Add class dates
* **Initial Assumption**: User can add a class schedule so users know when they can attend
* **Normal**: The user adds the hours for a class the gym is having
* **What Can Go Wrong**: The user accidentally adds the incorrect times for the class
* **Other Activities**: User can edit their schedule posting to show the correct times
* **System State on Completion**: Within the gym’s information, users can see where the class schedule is posted

**Use-Case Name**: Update Gym News

* **Initial Assumption**: User can add updates/news story for current events for the gym
* **Normal**: The user updates the gym’s page to show that they will be getting new equipment
* **What Can Go Wrong**: User posts information before it has been confirmed and the new equipment has been delayed
* **Other Activities**: The user can remove the news post to prevent other users from being misinformed
* **System State on Completion**: The gym’s news only shows what was added previously, since the new incorrect story was removed

U**se-Case Name**: Log In

* **Initial Assumption**: The user has an account to login to the system. The account is stored in the database.
* **Normal**: The user enters a name and password to login to the account.
* **What Can Go Wrong**: The user may enter the wrong password or forget theirs.
* **Other Activities**: The user can use a “forgot password” function to reset their password.
* **System State on Completion**: The user is logged in to their account. They can view other accounts and see their front page.

# Design Documents

## Software Architecture

## High-Level Database Schema

## Software Design

### State Machine Diagram: Actor Name (Responsible Team Member)

### State Machine Diagram: Actor Name (Responsible Team Member)

### State Machine Diagram: Actor Name (Responsible Team Member)

## UML Class Diagram

# Scenario

## Brief Written Scenario with Screenshots