



CSC 431

LiftX

Software Requirements Specification (SRS)

Team 3

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Version History

Version	Date	Author(s)	Change Comments
1.0.0	2/20/22	Kyle Blggs, Moose Griffth, Christopher Rodriguez, Jerome Fleischman	First draft created.

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1. System Requirements

1.1 Functional Requirements

1.1.1 View Home Page

Title	View Home Page
Description	The first page that the user sees when accessing LiftX through a web browser. Contains details on what LiftX is and buttons that pertain to logging in and signing up for an account.
Priority	0
Precondition(s)	-Home Page must be created first.
Basic Flow	-User accesses LiftX through a link or by typing the URL on the address bar. -User is given a description of what LiftX is and two options to login or sign up for an account.
Postconditions(s)	-User clicks on one of the buttons to either login or sign up for an account which takes them to the relevant pages.
Use Case Diagram	3.1.1

1.1.2 Sign up for an account

Title	Sign up for an account
Description	The user signs up for LiftX by registering with their phone or email. From there, they will input their username and password.
Priority	0
Precondition(s)	-User must access LiftX through a browser. -User must click on the button that reads "Sign up"

Basic Flow	-User clicks on the sign up button -User is asked to input their phone or email -User is then asked to input a unique username and password
Postconditions(s)	-User account is created. -User is brought to their personal homepage.
Use Case Diagram	3.1.1

1.1.3 Log-in to existing account

Title	Log-in to existing account
Description	The user logs into their account on LiftX with their username and password.
Priority	0
Precondition(s)	- User must access LiftX through a browser. - User must click on the button that reads "login"
Basic Flow	-User clicks on the login button. -User is asked to input their username and password.
Postconditions(s)	-User is brought to their homepage if their username and password are correct. -If their username and password are incorrect, the user is given an error and is asked again to input their correct username and password.
Use Case Diagram	3.1.1

1.1.4 Account Settings and Modification

Title	Account Settings and Modification
Description	The user will be able to change and modify the settings on their account through this page. They will be able to turn

	on/off notifications and change their email, phone number, username, and password if they so wish.
Priority	1
Precondition(s)	-User must login to their LiftX account. -User must click on the button that reads “Settings” on their personal homepage
Basic Flow	-User clicks on the “Settings” button -User is given a list of options that lets them change their email, phone number, username or password, as well as turn on/off notifications.
Postconditions(s)	-Account settings have either been changed or left alone
Use Case Diagram	3.1.1

1.1.5 Push Notifications

Title	Push Notifications
Description	Notifies users on their progress
Priority	2
Precondition(s)	-User must turn notifications on/off in the settings page.
Basic Flow	-User logs onto their account. -User goes into their account settings. -User turns their notifications on/off.
Postconditions(s)	-User will receive notifications at certain times of the day.
Use Case Diagram	3.1.1

1.1.6 Data Logging

Title	Data Logging
Description	User inputs the reps, sets, and weight of the particular workout they are doing.

Priority	0
Precondition(s)	-User must login to their LiftX Account.
Basic Flow	-User accesses their personal homepage. -User clicks the button that reads “Log Workout” -User then inputs the reps they do, the amount of sets they do, and the weight that they plan to lift.
Postconditions(s)	-User’s data is logged and recorded on their personal homepage.
Use Case Diagram	3.1.1

1.1.7 Data Visualization

Title	Data Visualization
Description	User’s progress will be recorded in a graph.
Priority	2
Precondition(s)	-User logs into their LiftX account.
Basic Flow	-User accesses their personal homepage. -User clicks the button that reads “Log Workout” -User logs their workout.
Postconditions(s)	-After the user logs their workout, their progress will be displayed in a graph that is on their personal homepage.
Use Case Diagram	3.1.1

1.1.8 Log-Out of Account

Title	Log-out of account
Description	User logs off their account.
Priority	1

Precondition(s)	-User is logged into their Lift account.
Basic Flow	-User is on their personal homepage on LiftX. -User presses the button that reads “Log-out”
Postconditions(s)	-User is then logged out of their account.
Use Case Diagram	3.1.1

1.2 Non-Functional Requirements

1.2.1 Automatic Password Reset

Title	Automatic Password Reset
Description	-If a user is not able to input their correct password after a number of times, they will be sent the option to reset their password through their email.
Priority	1
Applicable FR(s)	1.1.3

2. System Constraints

2.1 Tool Constraints

2.1.1 Code Sandbox

Title	Code Sandbox
Description	We will be using Code Sandbox for our frontend development for ease of use and toggleable preview formats.
Priority	4

2.2 Language Constraints

2.2.1 HTML

Title	HTML
Description	LifX will be a website based therefore requiring knowledge of HTML for page structure.
Priority	0

2.2.2 CSS

Title	CSS
Description	Knowledge of CSS will be required for page styling.
Priority	1

2.2.3 JavaScript

Title	JavaScript
Description	LiftX will require experience with JS to build the page interactions, behavior and dynamic content that will make it useful to our customers.
Priority	0

2.2.4 Java

Title	Java
Description	Java will be used for the backend development.
Priority	0

2.3 Platform Constraints

2.3.1 Web Browser

Title	Web Browser
Description	The user will need a web browser in order to be able to access LiftX. It can be through a computer or a phone.
Priority	0

2.4 Hardware Constraints

2.4.1 Smartphone or Computer

Title	Smartphone, or computer with a web browser needed
Description	To access the LiftX site, users will require either a smartphone device or computer with a web browser.

Priority	0
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2.5 Network Constraints

2.5.1 Network Connection

Title	Network Connection
Description	LiftX users must have an internet connection to access the site.
Priority	0

2.6 Deployment Constraints

2.7 Transition & Support Constraints

2.7.1 Version Control

Title	Version Control
Description	As we continue to build and push new features, we will use Github as our code repository.
Priority	0

2.8 Budget & Schedule Constraints

2.8.1 Budget Constraints

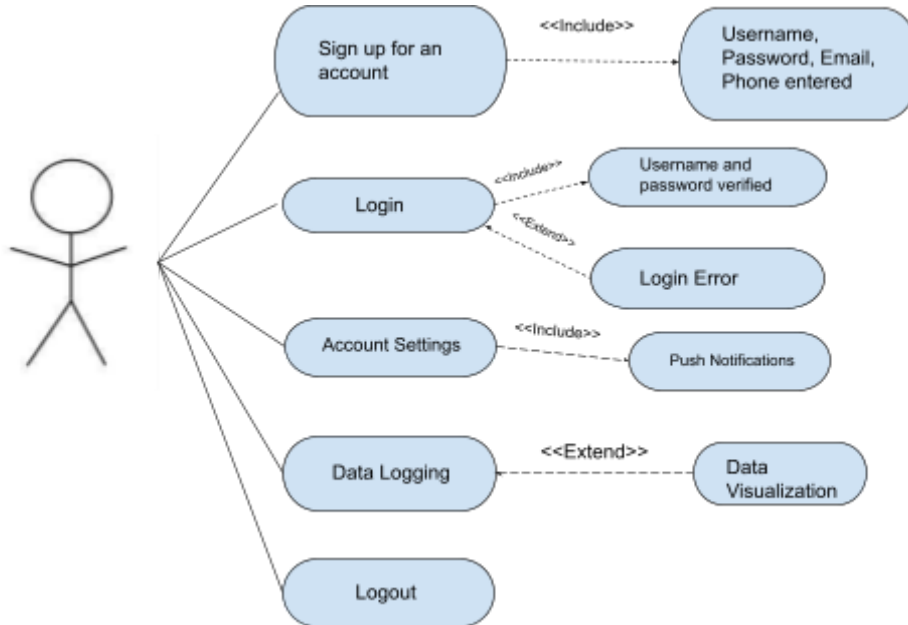
Title	Budget
Description	There is no budget as this is made for a project in class.
Priority	5

2.8.2 Schedule Constraints

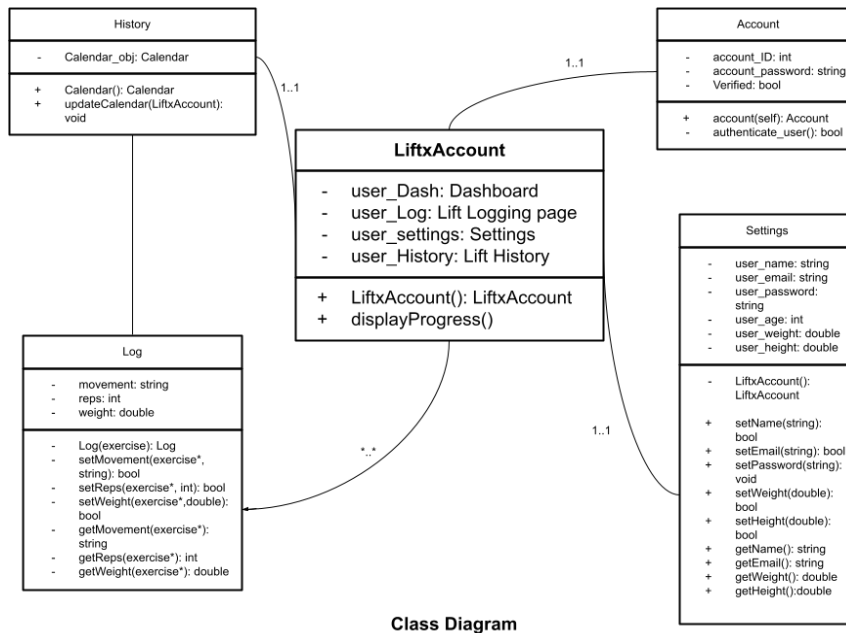
Title	Schedule
Description	The entire project must be completed by May 2nd,2022. With a prototype to be completed by April 12th, 2022
Priority	0

3. Requirements Modeling

3.1.1 Use Case Diagram



3.1.2 Class Diagram



4. Evolutionary Requirements

4.1 Functional Requirements

4.1.1 Registering for an account

Title	Registering for an account
Description	Users can register for an account to store their information.
Priority	Mandatory: 0
Precondition(s)	None
Postconditions(s)	User is sent a verification email or SMS message.
Use Case Diagram	3.1.1

4.1.2 Logging into an account

Title	Logging into an account
Description	Users can log into their existing account using the previous information used to register.
Priority	Mandatory: 0
Precondition(s)	User has an already existing account in the database.
Postconditions(s)	User is logged into their account and will see their dashboard.
Use Case Diagram	3.1.1

4.1.3 Data logging

Title	Data logging
Description	Users input the weights they are using to work out to be able to track their progression.
Priority	Mandatory: 0
Precondition(s)	User is logged into an account.
Postconditions(s)	Users will be able to track their weightlifting progression.
Use Case Diagram	3.1.1

4.1.4 Logout

Title	Logout
Description	Users can log out of their account.
Priority	Mandatory: 0
Precondition(s)	Users need to be signed into their account.
Postconditions(s)	Users will be logged out of their account, bringing them back to the login page.
Use Case Diagram	3.1.1

4.2 Non-Functional Requirements

4.2.1 Account settings

Title	Account settings
Description	Users will input their personal information
Priority	Mandatory: 0

Precondition(s)	User is logged into an account
Postconditions(s)	User's account is set up with their personal information to make the dashboard feel more personal. Users will also have the ability to enable or disable push notifications.
Use Case Diagram	3.1.1