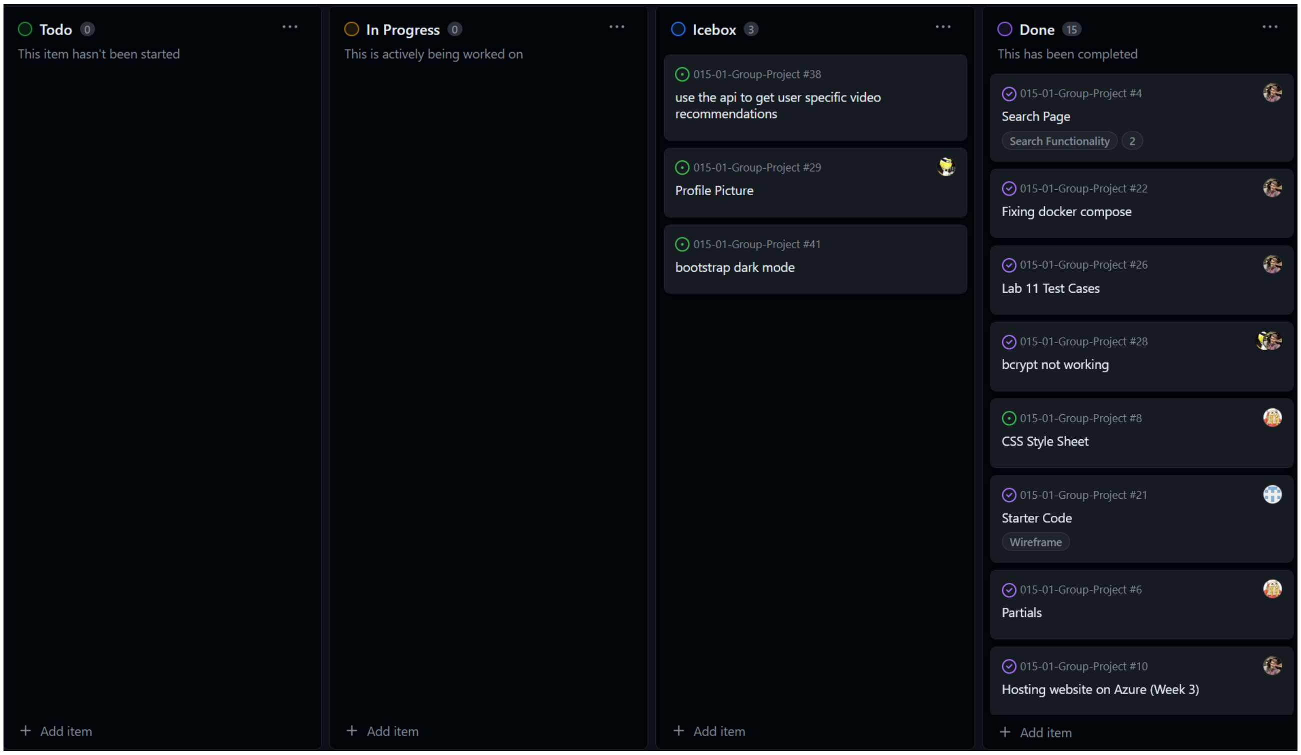
WatchL8r Project Report

Contributors: Michael Gladstone, Nathan Khazam, Johny Lam, Austin Layne, Henry Miller

Project Description

Our product aims to provide users with a streamlined way to collect YouTube videos that piqued their interest but they didn't have enough time to watch it as soon as it was recommended. When the user logs in to our website, they will be greeted with an elegant page featuring a text box where they can insert a link to a YouTube video that they want to add to their WatchL8r account. We will use a YouTube API to allow our users to search for YouTube videos on our website, so there is no need to go back and forth from YouTube and our website to save video links. Our website's login is separate from YouTube, so the user does not have to be logged into YouTube to save links. You can also fullscreen and watch the videos straight from WatchL8r, so you don't need to redirect to YouTube.

Project Tracker - Project Board



Todo 0
This item hasn't been started
+ Add item

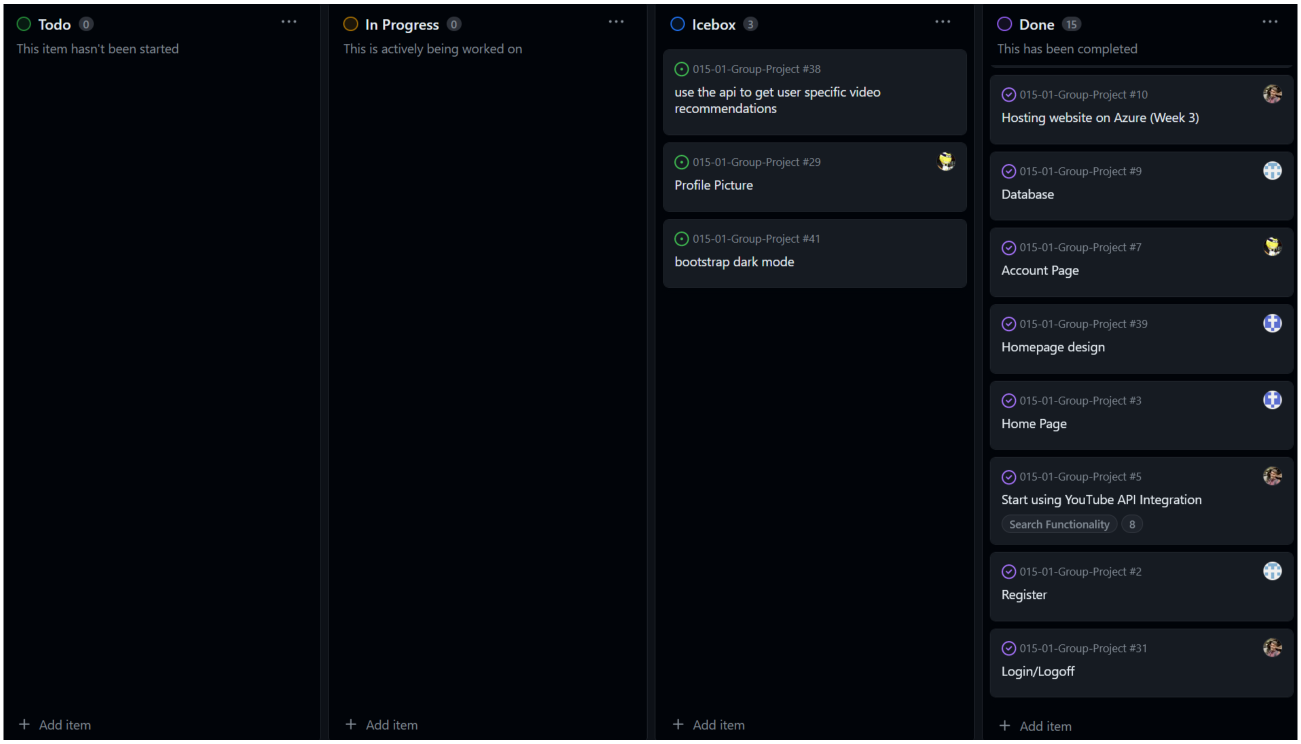
In Progress 0
This is actively being worked on
+ Add item

Icebox 3
- 015-01-Group-Project #38
  use the api to get user specific video recommendations
- 015-01-Group-Project #29
  Profile Picture
- 015-01-Group-Project #41
  bootstrap dark mode

+ Add item

Done 15
This has been completed
- 015-01-Group-Project #4
  Search Page
  Search Functionality 2
- 015-01-Group-Project #22
  Fixing docker compose
- 015-01-Group-Project #26
  Lab 11 Test Cases
- 015-01-Group-Project #28
  bcrypt not working
- 015-01-Group-Project #8
  CSS Style Sheet
- 015-01-Group-Project #21
  Starter Code
  Wireframe
- 015-01-Group-Project #6
  Partials
- 015-01-Group-Project #10
  Hosting website on Azure (Week 3)

+ Add item



○ Todo 0
This item hasn't been started

+ Add item

○ In Progress 0
This is actively being worked on

+ Add item

○ Icebox 3

015-01-Group-Project #38
use the api to get user specific video recommendations

015-01-Group-Project #29
Profile Picture

015-01-Group-Project #41
bootstrap dark mode

+ Add item

○ Done 15
This has been completed

015-01-Group-Project #10
Hosting website on Azure (Week 3)

015-01-Group-Project #9
Database

015-01-Group-Project #7
Account Page

015-01-Group-Project #39
Homepage design

015-01-Group-Project #3
Home Page

015-01-Group-Project #5
Start using YouTube API Integration
Search Functionality 8

015-01-Group-Project #2
Register

015-01-Group-Project #31
Login/Logoff

+ Add item

[Link to GitHub Project Board]

Video

WATCH L8R

Home Account Search Logout

Login

Username

Password

Login Need an account? Register

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If the video is not linking properly a copy of the video will be uploaded to the repository. Video Demo

VCS

Link to Main GitHub Repository

Contributions

Michael:

I created the accounts page and helped with the backend by getting the relevant routes for the stuff that would be displayed there (email, names, etc) set up. I also worked on setting up a route to pass in custom images to our database as binary and then convert them back into images to render (BLOB) for the custom profile picture functionality but I couldn't get it working in time for the presentation so I scrapped that feature and put a default placeholder profile pic in its place so the account page would look nice. I also helped with designing and putting together our slideshow. Lastly, I also troubleshooted an issue we had with our Docker where we ended up needing to delete the node modules and package lock and having docker rebuild it at runtime or else it wouldn't work.

Nathan:

My main contributions happened at the beginning of the project. I created the basic files and set up a lot of the starter code so we could begin our work. This consisted of skeletal code for most of the partials and pages which we all filled later in throughout the project.

I also headed up the login, register, and logout pages and the associated functions and designed our database layout which was modified over time to accommodate new and potential features (such as the profile picture that Michael was working on).

Johny:

I created the repository and helped everyone get started on their separate branches on github once we had a starting structure for the entire project added to the main branch. I also kept the project tracker up to date and did scribe work during the weekly team meetings that was uploaded onto the repo weekly.

I did frontend work with the partials included on all the pages and the CSS design of the website. I also helped out a little bit with the SQL but only through advice on constraints we could use for the scrapped profile picture feature.

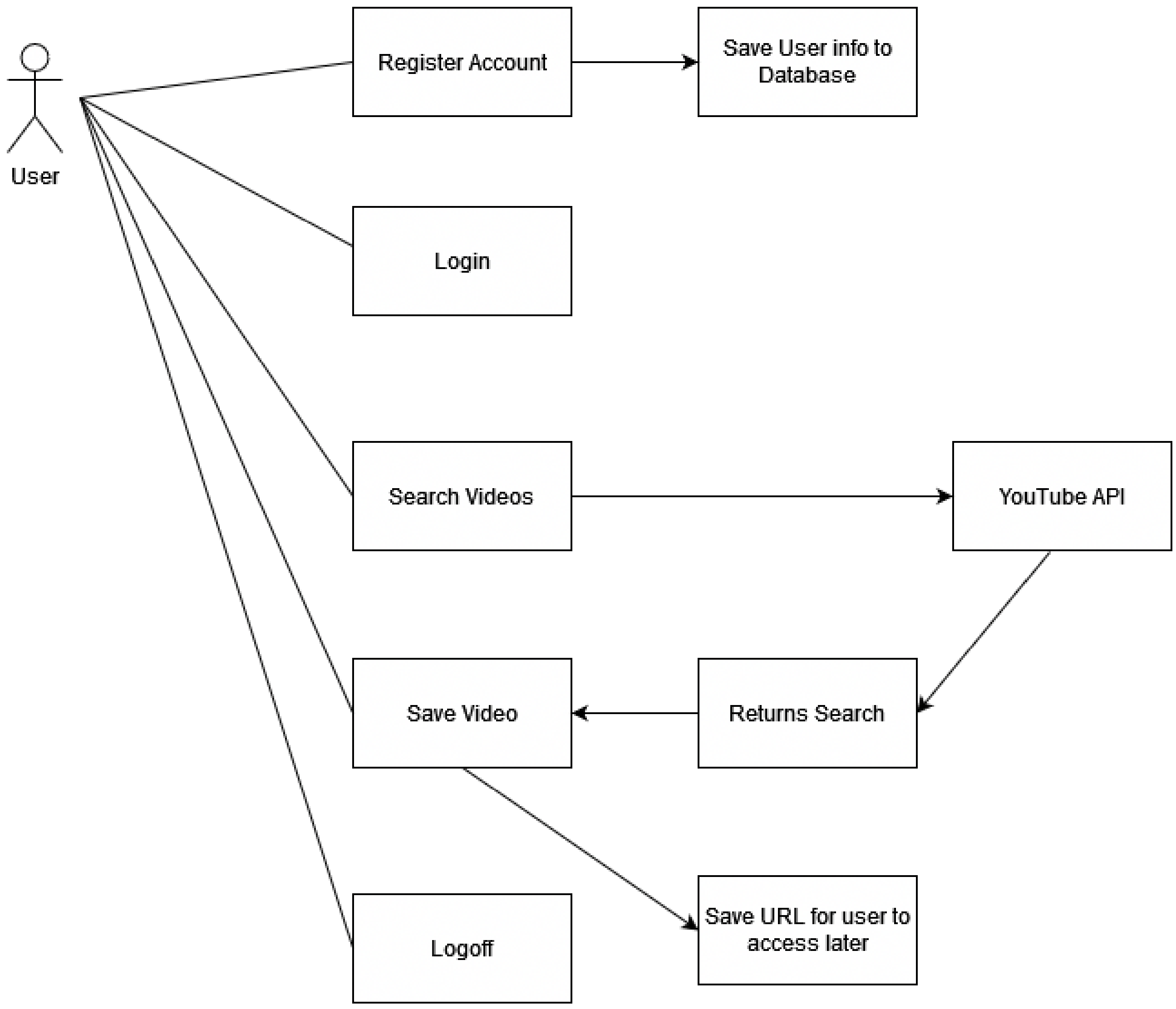
Austin:

My main contribution to the project was the implementation of the YouTube search API, along with the Search and Results pages. Because my contributions were more or less the core of the idea or our project I also had a hand in other elements of the project to maintain functionality with the API, but tried to make sure I didn't step on other members' responsibilities.

Henry:

I contributed mostly on the home page along with Austin's API implementation to make sure everything worked. I also tested out some different positionings and designs in deciding how our website was going to look. As for other miscellaneous things, I made a template for the presentation along with architecture and layout diagrams, the pre-recorded video demo, and most of the layout for the project report information.

Use Case Diagram



Test Cases

1. Users can successfully register a new user account.
2. Users can successfully login to their newly created account.

3. After logging in, users can successfully search for videos using the given search page. The results are retrieved and provided on the results page.
4. Users can freely add to and remove videos from their respective home pages.

Deployment

Our application is hosted using Microsoft's Azure cloud services on a virtual linux machine. It can be accessed through your browser using the link below:

http://recitation-15-team-01.eastus.cloudapp.azure.com:3000/login