

Our team of 2 consists of Annisha Akosah and Samantha Ong. We are working together to create a movie/TV show manager application. Our idea for the application resulted from discussions about different TV shows we were currently watching and wanted to watch. We found ourselves making mental notes to 'watch that later' but always ended up forgetting about it. There is now such an abundance of media that it's hard to keep track of it all. We want to create an application to manage and keep track of our favourite shows, see when new episodes are coming out and easily add new shows to our 'watch that later' list. This application will be called Vault.

After deciding on our application idea, we talked to individuals from multiple different user groups - colleagues, peers and family, to get their opinions. This feedback validated that our application would be useful and helped us narrow down some key functional requirements.

- Signup and create a profile
- Log in and out
- Browse the database of TV shows
- Search for specific TV shows
- Filter and sort results
- View description of selected show and specific episodes from said show
- Add shows to lists (want to watch/currently watching/watched)
- Their profile information uses cloud based storage

We have identified these as the main functional requirements of the Vault application. We think that this will be achievable within the suggested time frame of 40 hours. However, if we are incorrect in our estimations and we have extra time to create additional features, we have identified some 'nice to have' features that we would like to incorporate.

- Recommendations based on previously watched TV shows
- Notifications for new episodes of 'currently watching' TV shows
- Arrange episodes in a calendar view for episodes based on their release date
- Ability to give a rating for a show
- Add support for movies
- Follow friends and see their lists

Vault will use the OMDb API (The Open Movie Database) to obtain TV show information and content, this is a user maintained database that is undocumented and may occasionally have inaccurate information. We will use Firebase for persistent user storage and authentication. Neither member of our team are familiar with Firebase or the OMDb API so it may take additional time to become familiar with the tools.

This is a complex application that may present some challenges. We may be over-ambitious in what we want to achieve and underestimate the time taken to complete these requirements. This is something for us to keep in mind as we develop our application, which can be mitigated by timeboxing our work.

We also have no experience using Javascript or any Javascript frameworks and although we are both confident in our technical ability, it will be a steep learning curve to learn how to utilise these frameworks in the best way possible.

Considering these challenges and our technical skills, we have defined the requirements so that the 2 of us working together should be able to complete them within the given 4 weeks. This is a combined total effort of ~80 hours for full completion of the defined requirements, with additional features if time permits.