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Final Year Project Proposal

TU856

Subscription Service Tracker

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Signature

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Declaration

I hereby declare that the work described in this dissertation is, except where otherwise stated, entirely my own work and has not been submitted as an exercise for a degree at this or any other university.

Signed: Luke Hallinan

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Summary

This project will be the creation of a web app to allow the tracking and managing of subscription services that the user has subscribed too. It will allow the user to view each of the subscriptions in detail as well as have other information available to them for each one. They will be able to check the next payment date and amount, set an alert before the next payment, give cancellation info / links, and suggest other subscriptions they may be interested in.
This will be a local app to begin with but time and ability allowing it will be migrated to on online service such as AWS. Again, time and ability allowing the app will be linked to something like a google account where it could potentially auto detect subscriptions but this will require more research into feasibility. The Users information as well as the supported subscription services info will be stored. The services for this project will be limited to common services such as Netflix, Spotify etc. but more could be added once the framework is there.
The final deliverable will be a working web app with persistent data and working management services for the subscriptions.

Background (and References)

This projects background is based around my internship with MasterCard the year before. I was part of a UI / UX front end team and as such was focused on design / typescript / CSS which has heavily affecting the area I chose to do my project in. The main idea came from a hackathon we did during my internship as it was one of the ideas that I threw out but was never worked on. There are many other sites and services that allow for subscription tracking and managing and looking into these will be part of the research to be done. This is both to ensure they are not too similar as well as see common functions of these kinds of apps that must be included.
The main features are relatively common and should be easily researched. The two stretch features, the AWS integration and auto subscription add, will require more research into their feasibility and how they would need to be implemented. Both have ample documentation to allow for this but as the time constraints and complexity are currently unknown, they are is as stretch goals.

Proposed Approach

For this project the initial approach to this project research into similar apps will be invaluable. There are other services out there that do the same or similar and these will need to be investigated. Common feature that this app should have will be noted and added as well as looking for areas to improve on. This is also very important to ensure they are not too similar to current services and cannot be mistaken for them.

Once this is done setting up the local web services needed will be required. This will require a large amount of research and advice as this was outside of what my front-end team worked on during my internship as well as a subject that I am taking this semester. Once this is up and running the actual designing and making of the site's graphics can begin.

The initial layout and functions will be mocked up on an available service and used as a base to the site creation. To begin with the graphic part will be created with only the simple functions such as displaying the header, footer, current subscriptions, and dropdowns that will contain the more advanced functions.

Once these are functional the more advanced parts such as alerts and payment tracking will be added as these will require more backend work. They will then be added to the drop downs and areas laid out in the previous step.

The general functions of the app will be complete at this point for a local version and quick round of testing will be done on these.

After this the two stretch goals will be worked on. If the research shows it is feasible then the auto addition of subscriptions sign into by the given google account will be added. After this is finished or found not feasible then migrating to an online service like AWS will be done. Should the earlier research for the auto add be deemed unfeasible then the form will be submitted to pay for the AWS systems needed after the research step as it my take time to be approved.

The last week will be dedicated to testing / maintenance of the app.

Deliverables

1. Information on common app functions and if stretch goals are feasible.
2. Woking local web services with persistent data.
3. Mock-up of site
4. Basic UI complete. Header, footer, current subscriptions, and dropdowns
5. Advanced functions. Alerts, payment tracking, etc.
6. Tested and working basic app version
7. Working auto add (if feasible)
8. Migrated to AWS service
9. Tested and working on AWS service with all other functionality

Technical Requirements

- A local web service must be hosted on an appropriate software.
- The angular framework may be used for this project and will be decided on during the research phase.
- Typescript will be used for the main site language along with HTML and CSS.
- A local database for persistent data will be needed (may be moved to AWS later)
- Google account integration
- AWS services

Conclusion

By the end of the project there will be a working web app to allow the user to track and manage their active subscriptions. This will either be a local site or hosted on a service like AWS.