

Canteen App

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Background

We've been asked to develop an app for the Canteen & Nutrition department(?) to display a constantly-updating list of recipes, newsletters and canteen menu items. This app will also display some general static information, such as the location of the food pantry.

We've chosen to develop this project in React/React Native, utilizing React for now. Both share the same syntax, and our final decision will depend on whether or not we intend to publish this app on the Play Store/Apple Store.

Resources Required

Server

The cloud server that is recommended for this project is Google Cloud, mainly due to the fact that it offers more customization options than Microsoft Azure or AWS. This customization allows for a server that is more suited to the workload that is expected from this project.

There are a range of prices for the server, based on the number of CPUs and the amount of RAM that is needed for the project. The table below lists a number of specifications suitable for the server (based on the expected server workload for the project), as well as the associated costs:

Option	CPUs	RAM (GB)	Cost per Month (€)
Option 1	0.5	1	10.77
Option 2	0.5	2	12.43
Option 3	0.5	4	17.61
Option 4	1	1	19.55
Option 5	1	2	21.86
Option 6	1	4	26.48

Database

Both Google Cloud Storage and MongoDB Atlas are candidates for the database of the project. Again, Google Cloud Storage offers more customization than Microsoft Azure or AWS, making it more suitable for this project's storage requirements. MongoDB Atlas also offers storage at a similar price to Google Cloud Storage. The price of storage can vary depending on multiple factors, but based on the estimated storage requirements of the project both Google Cloud Storage and MongoDB Atlas should be less than €1 per month. Both of these options can be easily scaled up if it becomes necessary in the future.

Requirements

<i>Title</i>	<i>Priority (Estimate)</i>	<i>User Story</i>	<i>Acceptance Criteria</i>
See Menu	10	As a user, I want to be able to see the current offerings in the Canteen in detail.	When clicking the Menu option in the home page, a list of menu items for the canteen should appear.
See Recipes	10	As a user, I want to be able to see and download nutritious/healthy recipes.	When clicking the Recipes option in the home page, a list of recipe PDFs should appear with a download option when clicked.
Upload Menu Items	10	As a canteen worker I want to upload menu items with names, prices, allergen information and nutritional information.	The Admin Panel should have an Upload Menu Item button that allows the to define and upload the details of a menu item.
Menu Items Persistence	7	As an Admin I want menu items I've uploaded previously to be available in the future.	Menu items should be persistent so that they can be selected for future weekly menus with ease.
Delete Items	7	As an Admin I want to delete menu items that will no longer be on offer.	Menu Items should have a delete button that removes them from the database.
Upload Recipes	10	As an Admin I want to be able to upload recipes (PDF) so that users can view them.	The Admin Panel should have an Upload Recipe button that allows admins to define a title, and upload a recipe.
Set Weekly Menu	10	As an Admin, I want to be able to select several menu items for each day of the week and set that as this week's menu.	The Admin Panel should have a page that lists menu items previously uploaded that allows admins to select different ones for each day of the week that they'll be available.

Loyalty System	?	As a user, I want to be able to collect stamps to redeem a free ____.	?
Pantry	8	As a user, I want to be able to see the details of the food pantry.	There should be a Pantry page available to the user that showcases where the food pantry is, when it's open and what it contains.
Newsletter	?	As a user, I want to be able to see the latest information uploaded by the HealthyATU group.	There should be a Newsletter Page that showcases various information posts uploaded by admins.
Upload/Delete Newsletter	?	As an admin, I want to be able to upload & delete newsletter posts (PDFs).	There should be a newsletter page on the admin panel that allows admins to upload, list and delete posts.

Milestones

- ☐ March 22nd - Initial Release Date

TBC if the loyalty program is being built in-app. If so, we may release incrementally with most of the features being in late march and the loyalty program being released later on.

Risks

Advertising - There is a chance the deadline would have to be pushed out so advertising the release day too early might be a problem. <Security>

Criteria for Completion

- ☐ All user stories completed.
 - ☐ Users can visit the site at _____ and have been told about it.
 - ☐ Admins can use the admin panel and have been informed on how to do so.
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Summary

Initial Release Date: March 22

App format: A website over a downloadable app due to costs and our team's coding experience.

Squid for the Loyalty Scheme would work fine but it costs €30 a month and if the budget does not allow this then we will look into an alternative e.g. QR codes.