

# Final Project - Report

## Details

<b>Project Name</b>	Quick Tasker
<b>Student Details</b>	
<b>Student Name/s</b>	Lena Dahlin
<b>Student Number/s</b>	C3391146
<b>Approximate Percentage completed by each student</b>	100%
<b>Does each team member agree to this percentage (Yes/No)</b>	Yes

<b>Which Platform did you develop for? (Please Select)</b>	Android
<b>Which emulator should we use to mark? (Please Select)</b>	Android

## Features Used

Please Check all that apply:

Accelerometer	X	File Storage	X
Audio/Video		GPS/Location	
Biometric sensors		Gyroscope	
Bluetooth		NFC	
Camera		Other features not listed here (list below)	
Compass/Magnetometer		Payment	
Existing Libraries (list below)	x	Security	

**Existing Libraries Used:**  
SynCFusion.Maui.Calendar

**Other Features Used:**  
FontAwesome icons

## Brief Project Description (100 words)

Quick Tasker is a task list app where users can add tasks with due dates, assign them to a date, mark as complete, and an estimated time for how long the task takes. Tasks can be edited, with all fields apart from name being optional. Users can enter a date to assign a task to and how much time they have available, with Quick Tasker providing a suggestion of a task that applies for those parameters.

## Project Planning

One of the features from my initial pitch that was not included in the final project is the Recently Deleted page. This would not be difficult to implement as it would require another database table, another page, and most deleting tasks after a certain period or only storing a certain number of tasks. I chose not to include this as I felt the pop-up confirmation for deleting

a task fulfills the purpose of ensuring that tasks are not accidentally deleted. Local notifications were also not included as I felt that the complexity of the project is sufficient without it, however this would not be difficult to add either.

The layout of tasks isn't identical to the wireframes as I could not add rounded corners. Rounded corners would require frames, but adding frames to my tasks broke the app. This is a known issue of MAUI that is currently open on GitHub (<https://github.com/dotnet/maui/issues/15196>). Using borders achieves a similar goal of the frames, it just can't be rounded in the same way. I also made the colour of the border dependant on whether the task is completed or not to highlight the status: light and blending in with the background for completed, and dark and obvious for not completed.

The shake feature is untested as I don't have an android phone to test it on, and I haven't been able to replicate the shake degrees on the emulator. If I were starting the project again knowing that I wouldn't be able to replicate the shake on the emulator, I would have made the app for iOS. The shake feature is a part of the task suggestion features, where users can either press "Generate Again" or shake the phone.

Swiping on the Daily View page only works on areas that have content on the android emulator. I have not been able to fix this, but there are buttons to do the same function. Apparently, this works on the Windows emulator but does swipe twice sometimes.

I also had issues with the FontAwesome icons. Icons were listed as free on the website and they should have worked with the font files, however most of them showed as not defined symbols instead. I believe this is because some of the icons were previously paid only and have not been updated in the file to reflect that they are now free. If I were publishing the app, I would pay for the icons I wanted to use initially to make the app look better.

One feature that was added to the app after the pitch and progress presentation is filtering for the Task Bank. This allows the user to choose what uncompleted tasks they want to see. A splash screen and AppIcon was also added.

#### References (if applicable)

All in-app icons: <https://fontawesome.com/icons>

FontAwesomeHelper code: <https://andreinitescu.github.io/IconFont2Code>

Maui.Syncfusion.Calendar: <https://help.syncfusion.com/maui/calendar/getting-started>

Splash and AppIcon: Blue White Cute Simple Doodle iOS Icon by Irina Trigubova, <https://www.canva.com/>