

Assignment Brief

Qualification (s)	UG: Web & App Development		
Pearson Unit & Number	Unit 49: App Development Framework		
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Date Issued	Tuesday, December 15, 2020		
Submission Deadline	Friday, January 22, 2021	Time	6.30 PM
Assignment Title	Application Development (React Native/Expo)		

Important

80% attendance will be mandatory to submit this assignment. Resubmissions will affect your course duration and assessed only with a pass result. For any improper submission or if your DVD is unreadable, your assignment will be considered as a non-submission.

Submission Format

Create a GitHub repository named 'YourStudentID – YourFirstName – APP'. Your entire project should be available on this link.

There should be 2 folders and a file in the root directory of your repository.

Folders

- Project Your Code Submission Folder
- Report (Your report in .pdf type should be added inside this folder)

File

README.md file (giving all information about the project including your details)

Sharing a GitHub Repository link with your Module Leader is your submission. No links will be accepted after the submission deadline and all links given will be treated as final. (Strictly no editing of any code on the repo after the deadline is elapsed.)

All information sources and resources, including websites used to complete this assignment, must be stated and correctly referenced (eg. Harvard Referencing). No credit will be given for extensive copying from information sources and checks for plagiarism may be made on your submitted work.

Resources

- 1. React Native documentation https://facebook.github.io/react-native/docs/getting-started
- 2. Expo Documentation https://docs.expo.io/versions/latest/
- 3. Module contents shared during the classes. (Slides, Practical Guides etc)

Assignment Brief and Guidance

The assignment will test on the knowledge about different mobile application frameworks and the ability to read a use case and suggest a most suitable framework. At the end of the assignment there will be a GitHub repository hosted with code for an application and a report stating how the application was developed. Please find the use case requirement below and the respective task.

"ToDoNotes" is a mobile application which helps students to add Todo's/Reminders and keep track to make sure nothing is neglected. The application should have the below basic features.

- Ability to type and input a Todo item
- Ability to view the Todo item which was inserted
- Ability to mark (strikethrough) an item when done
- Ability to delete all added Todo items from a button

This application should be developed in a short time as the students are almost at the end of the semester. Anybody should be able to access this application and it should be having a very good user experience so the students will enjoy it.

Task 1 (Mobile Application Framework)

- 1. With your knowledge on application development frameworks provide the framework solution you would propose to develop "ToDoNotes". Justify your answer.
- 2. Compare and contrast your frameworks with other available mobile frameworks stating the pros and cons (3 points each for pros and cons)
- 3. Suggest a value-added feature for "ToDoNotes" showing your creativity
- 4. What are the considerations done when deciding a mobile application framework?
- 5. State your favorite mobile application explaining why

Task 2 (Git)

Create a new repository in your GitHub account. Make sure to use the correct naming convention. 'YourStudentID – YourFirstName – APP'. Add a ReadMe file and give all information about your project. Clone the project to your machine (GitHub/Sourcetree) and add the following folders.

- Report Contains a pdf file with answers to Task 1 (YourName.pdf)
- Project Contains an App.js file for the answer to Task 3

Task 3 (React Native/Expo)

Using Expo Snack web client (https://snack.expo.io/) create a new project for the requirement "ToDoNotes". Once done save your expo project and copy the contents to the App.js file in your cloned repository in GitHub. (Refer Task 2). Commit your changes with the message "ToDoNotes Code" and push your code to GitHub. Take a picture of the app running on your mobile and include in the Report.

Learning Outcomes & Assessment Criteria			
Pass	Merit	Distinction	
LO1 Explain the features of app devel	D1 Critically evaluate		
the development process	the benefits of		
P1 Discuss the function and use of	M1 Compare the features and	different app	
app development frameworks	functions of native and hybrid app	development	
P2 Explain the relationship between	development frameworks	frameworks for	
app development frameworks and		projects on different	
programming languages for		mobile platforms	
different mobile platforms			
LO2 Select an app development frame	D2 Produce a		
requirements of a given brief	functional app		
P3 Evaluate a brief to establish	M2 Justify the selection of an app	prototype, using a	
project aims and objectives	development framework based on	selected app	
P4 Test app development	technical features, design features	development	
frameworks, to identify the system	and long-term code maintenance	framework, based on	
to be used to meet requirements of	and updating	research and analysis	
a brief		of the potential	
		benefits of the	
		framework	
LO3 Develop a functional app prototyp	D3 Critically analyze		
industry-standard tools and technique	the development		
P5 Use a selected app development	M3 Use version control systems to	processes, highlighting	
framework, wireframing and testing	manage code development and plan	potential strategies for	
to develop an app prototype	for future updates	improving future	
P6 Compile and debug app		development projects	
development code, to support a			
functional app prototype			
LO4 Analyze the development process development framework	s and result of using a selected app		
P7 Review the code and interface	M4 Critically evaluate the use of an		
development process, in relation to	alternative app development		
meeting milestones and deadlines	framework and how this would		
P8 analyze the way that the selected	impact on future development		
app development framework has	projects		
enabled an effective development			
processing features and long-term			
code maintenance and updating			