Assignment Brief

Qualification(s)	Pearson BTEC HND in Creative Media Production (Web & App Development)
AMDT Unit	**App Development Framework**
Pearson Unit & Number	Unit 49 - App Development Framework
Facilitator	Prasanna Vaikunthavasan
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Written By	Prasanna Vaikunthavasan
Date Issued	Click here to enter a date.
Submission Deadline	**Friday, November 11, 2022** **Time** **9.00 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 with a pass result. For any improper submission (eg. unreadable DVD media, incorrect link, no access to link, error in submission, etc) your assignment will be considered as a non-submission. So please check your submission thoroughly before sending them. Refer assignment submission guidelines for more information.

Academic Integrity

You pledge and declare that the work submitted for this assignment has been researched, undertaken, completed, and submitted solely by yourself, except the assignment guidelines require you to work in groups. Further, you declare that the work entitled is your original work and you have not copied from any other students' work or any other sources except where adequate reference or acknowledgment is made explicitly in the text, nor has any part been written for you by another person.

How to Submit

There should be 3 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)
Expo – Your Expo snack app link

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

Sharing a GitHub Repository 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.

This is an online submission. You are not required to print the assignment or create any subfolders unless it's specified to do so in the assignment brief.

Step 01 - Upload your work to your google drive first.

Step 02 - Make sure that your drive folder is visible/accessible for anyone with the link.

Step 03 - Fill the google form and copy your assignment drive folder link in the given space in the google form under the "assignment link".

Step 04 - Click to submit the google form.

Assignment submission link - https://forms.gle/tfD1E9WgiNJh6Q6H9

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
- Expo – Expo Snack link of your prototype link in a text file

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 and Assessment Criteria Creative Media Production (CMP) – Unit 49: App Development Framework		
PASS	**MERIT**	**DISTINCTION**
LO1 Explain the features of app development frameworks, and their use in the development process		**D1** Critically evaluate the benefits of different app development frameworks for projects on different mobile platforms
P1 Discuss the function and use of app development frameworks **P2** Explain the relationship between app development frameworks and programming languages for different mobile platforms	**M1** Compare the features and functions of native and hybrid app development frameworks	
LO2 Select an app development framework, based on the needs and requirements of a given brief		**LO2 LO3** **D2** Produce a functional app prototype, using a selected app development framework, based on research and analysis of the potential benefits of the framework
P3 Evaluate a brief to establish project aims and objectives **P4** Test app development frameworks, to identify the system to be used to meet requirements of a brief	**M2** Justify the selection of an app development framework based on technical features, design features and long-term code maintenance and updating	
LO3 Develop a functional app prototype, for a defined mobile platform, using industry-standard tools and techniques		
P5 Use a selected app development framework, wireframing and testing to develop an app prototype **P6** Compile and debug app development code, to support a functional app prototype	**M3** Use version control systems to manage code development and plan for future updates	
LO4 Analyse the development process and result of using a selected app development framework		**D3** Critically analyse the development processes, highlighting potential strategies for improving future development projects
P7 Review the code and interface development process, in relation to meeting milestones and deadlines **P8** Analyse the way that the selected app development framework has enabled an effective development process	**M4** Critically evaluate the use of an alternative app development framework and how this would impact on future development projects	