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SUBJECT AND LEVEL	ADVANCED DEVELOPMENT SOFTWARE		
SUBJECT CODE			
DATE	04 June 2022		
VENUE	D LABS	NUMBER OF PAGES (including cover page)	5
TIME	09Н00	DURATION	3HRS
FULL MARKS	100	TOTAL MARKS	50

EXAMINERS	N.F. NJAPHA
MODERATOR	V. JUGOO

FACULTY	NATURAL SCIENCES
DEPARTMENT	INFORMATION AND COMMUNICATION TECHNOLOGY
QUALIFICATION	DIPLOMA: SOFTWARE DEVELOPMENT

DO NOT TURN OVER UNTIL PERMISSION IS GIVEN BY THE MAIN INVIGILATOR.

## **INSTRUCTIONS**

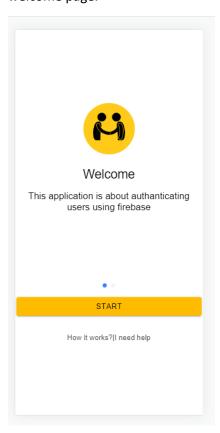
- Fill in the mark sheet with your student details.
- Leave your application and firebase opened for marking.
- You are allowed to access <u>www.ionicframework.com</u> and <u>https://ionic.io/ionicons</u> for ionic components and ionic icons.
- All error messages and messages must be displayed in a toast.
- All files needed to complete the test are available on blackboard under the (Test one/support files) folder.
  - o Button color
  - Logo (logo size) and
  - Toast method.

## **QUESTION ONE**

You have been requested to create a mobile application that will authenticate users using their email address and password. Use firebase for authentication.

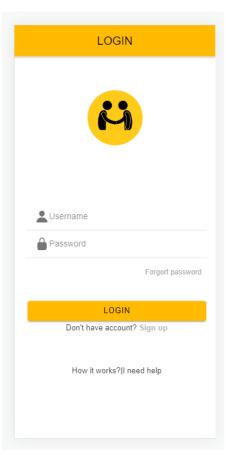
Welcome page [Total: 5 Marks]

Navigate to the **login page** when the start button is clicked. You can either use a slide or a simple welcome page.



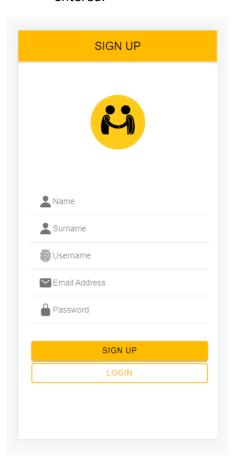
Login page [Total: 15 Marks]

- Login using the email address and password credentials stored on firebase.
- Display an appropriate error massage if no values have been entered or if values entered do not exist.
- Display an appropriate error message if the user has not verified their email address.
- If the user has entered correct details, display the message "You have successfully logged in".
- Navigate to the appropriate pages when other links are clicked.



Signup page [Total: 15 Marks]

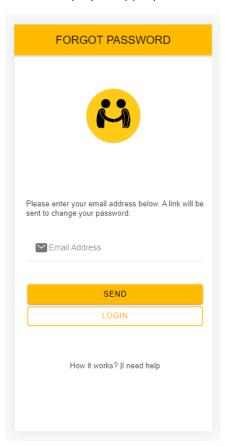
- Save and authenticate the email and password using firebase.
- Name, Surname and Username are not to be validated or saved. They are there for design purposes.
- Display an appropriate error message if email address and password have not been entered.
- Send a verification email message to a successfully registered user.
- Ensure that the user enters both email and password.
- Display an appropriate error message if both email address and password have not been entered.



## Forgot password page

- Send an email link for the user to change their password.
- Display an appropriate error message if the email address does not exist.
- Display an appropriate error message if email address has not been entered.

[Total: 10 Marks]



Overall: 5 Marks

**TOTAL: 50 Marks**