Project 2-Term 3 Assignment

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# CODING PROGRESS

# REGISTER ACTIVITY JAVA and XML code



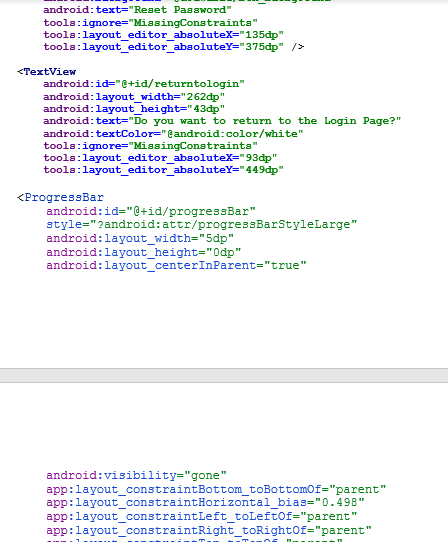


# FORGOT PASSWORD JAVA and XML.

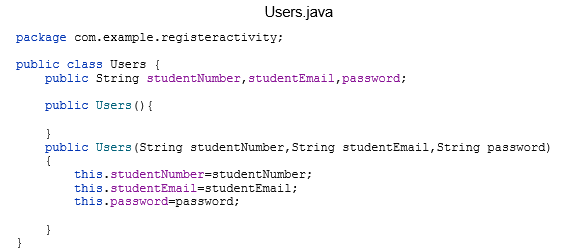




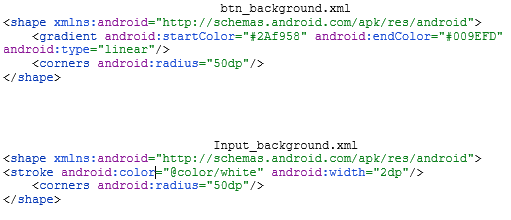




# USERS JAVA CODE



# DESIGN XML CODE

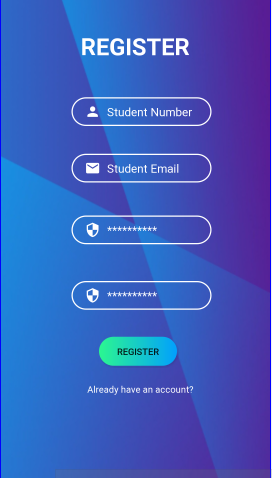


# USER INTERFACE DESIGN

# REGISTER PAGE(Wireframe)

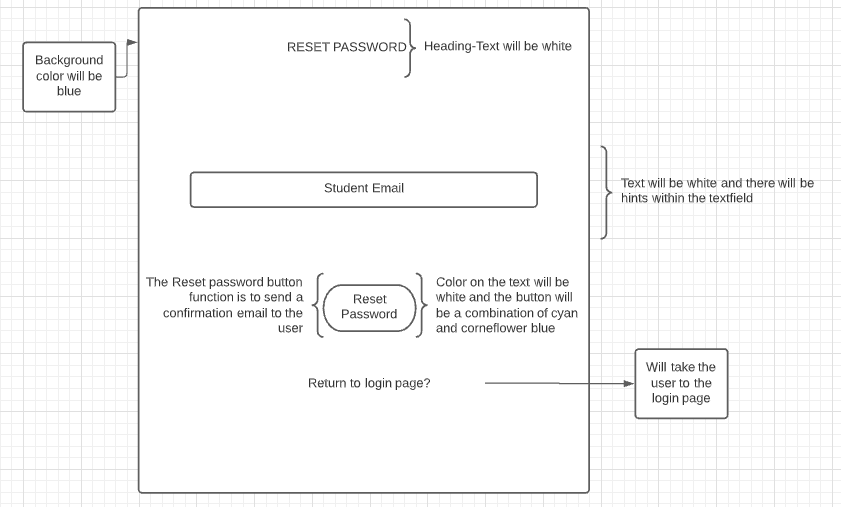
# -Jaftha, W (2021)” PROJECT 2-Warren Jaftha-Individual Assignment”. Cape Peninsula University of Technology. Unpublished essay

# REGISTER PAGE (In-App Appearance)



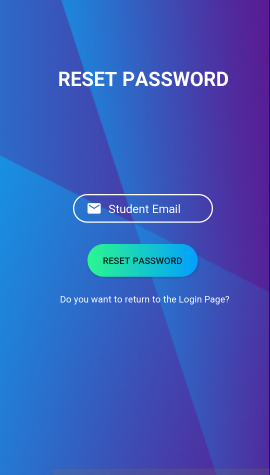
# -Jaftha, W (2021)” PROJECT 2-Warren Jaftha-Individual Assignment”. Cape Peninsula University of Technology. Unpublished essay

# FORGOT PASSWORD PAGE(Wireframe)



# -Jaftha, W (2021)” PROJECT 2-Warren Jaftha-Individual Assignment”. Cape Peninsula University of Technology. Unpublished essay

# FORGOT PASSWORD PAGE (In-App Appearance)



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# DATA DESIGN

# FLOWCHART

Diagram

Description automatically generated

# COLOR



**CYAN**  **RGB**: 0,255,255 **HEX**: 00FFFF



**BLUE**  **RGB**: 0, 0, 255 **HEX**:1800FF

![Shape, rectangle

Description automatically generated](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAKAAAAAyCAYAAADbYdBlAAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8YQUAAAAJcEhZcwAADsMAAA7DAcdvqGQAAACVSURBVHhe7dIxAQAgDMAwrGIGvXMwZPTJEQc5981CRUBSApISkJSApAQkJSApAUkJSEpAUgKSEpCUgKQEJCUgKQFJCUhKQFICkhKQlICkBCQlICkBSQlISkBSApISkJSApAQkJSApAUkJSEpAUgKSEpCUgKQEJCUgKQFJCUhKQFICkhKQlICkBCQlICkBSQlISkBCsx+JGKSp53S2MAAAAABJRU5ErkJggg==)

**CORNFLOWER BLUE** **RGB**: 100,149,237 **HEX**6495ED

**BACKGROUND COLOR:** The background colour for my app will be an image which gives the app a nice abstract look.

# ERD DIAGRAM

Diagram

Description automatically generated

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# REGISTRATION PAGE PSUEDOCODE

# BEGIN

# INPUT

Display “Student number”

Enter Student Number

Display “Student Email”

Enter Student Email

Display “New password”

Enter New password

Display “Verify Password”

Enter Verify Password

# PROCESS

**If**

All data is inserted correctly into the fields.

**then**

Data gets retrieved from the text fields and the new user is created.

**Else if**

Certain fields are left empty.

**Then**

No data is retrieved, no user is created.

# OUTPUT

Users Account is created and is taken to the Registration Page.

# END

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# FORGOT PASSWORD PAGE PSUEDOCODE

# BEGIN

# INPUT

Display “Student Email”

Enter Student Email

# PROCESS

**If**

email is inserted.

**Then**

Data gets retrieved from the text fields and a verification email is sent to user.

**Else if**

No email is inserted.

**then**

No verification email is sent, and alert message is displayed

# OUTPUT

The user receives the verified email then being able to reset their account.

# END

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# DATA ATTRIBUTES

# REGISTRATION PAGE

|  |  |  |
| --- | --- | --- |
| INPUT | VARIABLE | FUNCTION |
| Student Number | Integer | Every student on CPUT has a unique student number that serves as a university ID |
| Student Email | String | The email will be used when the individual forgets their password then the app will use this to reset it |
| Password | Integer | This is for security purposes so no one can enter your account without your permission |

# PASSWORD RESET PAGE

|  |  |  |
| --- | --- | --- |
| INPUT | VARIABLE | FUNCTION |
| Student Email | String | The email will be used when the individual forgets their password then the app will use this to reset it. |

# TESTING

# Registration page

Graphical user interface, text, application, email

Description automatically generated

# Forgot Password page

Graphical user interface, text, application, email

Description automatically generated

# WHAT DID YOU DO?

The aim for this assignment was to develop an online database utilizing the built-in software called firebase, as well as a Registration page to collect information from people when they sign up for an account.

In addition, I was given the task of creating a Forgot Password page, which will be linked to the Login page and will use the built-in software called Firebase to send users a link to the email address they used to sign up with when they created their account, and if they follow the link, they will be able to reset their password.

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# HOW DOES IT WORK?

The way my 2 pages will work will be with firebase.

Backend-as-a-Service provider Firebase (Baas). It offers a number of tools and services to assist developers create high-quality apps, expand their user base, and make money. It is based on the infrastructure of Google.

Firebase is a NoSQL database application that saves data in JSON-like documents.

To put it another way, the objective of this program in our app is to function as a safe and secure online database that will store information that individuals have entered while creating an account on the registration page as well as locating information when they attempt to login.

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REGISTRATION PAGE

The registration page will collect the user's information and keep it in our online database, which I built using Firebase. Once the user has registered, they will be directed to the login page to sign in because they now have an account.

PASSWORD RESET PAGE

When a user forgets their password, they will be directed to the forgot password page via a link from the login page, and when the user types in their email (the one used to create the account), the software called firebase will send the user an email with a link, which when followed, will allow them to change their password, which will then be saved in the online database.

# HOW DOES IT INTEGRATE WITH EVERYONE ELSES WORK?

The way that my 2 pages integrates with the whole assignment is only with login page.

Once the individual is done Creating their account then they should be taken to the Login page then once they log in then they will be taken to the function page.