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**Course Section Number: 42**

**WEB PROJECT** **REPORT**

**[SKKU COMMUNITY]**

1. **Start Page**

[Desktop Version]

A screenshot of a cartoon

Description automatically generated

[Mobile Version]

A screenshot of a cartoon

Description automatically generated

[Main functions]:

* Starting page that is opened when user enters the website or logs off from their account.
* Upon button press, redirects user to login page.

1. **Login Page**

[Desktop Version]

A screenshot of a computer

Description automatically generated

[Mobile Version]

A screenshot of a login form

Description automatically generated

[Main functions]:

* Upon “Sign In” button press, it checks if the email is in correct type and then it tries to use entered email and password to sign in into account created in Firebase Authentication system. If entered combination of email and password is incorrect, the appropriate alert is shown. So it basically provides regular online “Sign In” functionality. There are also many default firebase checkings involved.
* If user forgot their password, they can press “Forgot your password?” and then enter their email address to get a password reset link.
* If user does not have an account, they can press “Sign up” and get redirected to sign up page.
* If user signs in successfully, they get redirected to the forum page.

1. **Registration Page**

[Desktop Version]

A screenshot of a computer

Description automatically generated

[Mobile Version]

A screenshot of a login form

Description automatically generated

[Main functions]:

* Upon “Sign Up” button press, it checks the information entered by the user and if it is suitable, it tries to create an account in Firebase Authentication system and also writes user’s email and username into database. It allows to check if the entered username is already in the system.
* If user does have an account, they can press “Sign in” and get redirected to login page.

1. **Forum Page**

[Desktop Version]

A screenshot of a computer

Description automatically generated

[Mobile Version]

A screenshot of a phone

Description automatically generated

A white background with black text

Description automatically generated

[Main functions]:

* This forum page downloads all posts from the Firebase Realtime Database and then adds posts elements to the page. The newest post is shown on the top.
* There is a navigation bar that allows user to access the chat, their profile, and write a new post to the forum.
* The navigation baar changes its appearance based on the screen resolution.

1. **“New Post” Page**

[Desktop Version]

A screenshot of a computer

Description automatically generated

[Mobile Version]

A screenshot of a post

Description automatically generated

[Main functions]:

* When user presses post and both fields are not empty, the post is created in the forum (it is stored in Firebase Database).

1. **Chat Page**

[Desktop Version]

A screenshot of a chat

Description automatically generated

A screenshot of a chat

Description automatically generated

[Mobile Version]

A screenshot of a phone

Description automatically generated

A screenshot of a computer

Description automatically generated

[Main functions]:

* User’s username is written and user can join the chat or go back to the forum.
* User can join the chat anonymously (their username will be as “anon”).
* When joined, the user can see the messages already sent in the super chat. The oldest message is shown first, and the newest message is shown last. The messages are downloaded the moment the user joins the chat, they are retrieved from Firebase Database.
* User can a message, the chat will be refreshed and all users will see the new message. The message is basically stored in the Firebase Database and when it is sent, the messages will be retrieved from the database once again to refresh the chat.
* In the chat itself, user can press “go back” to go back to the forum.

1. **“New Post” Page**

[Desktop Version]

A screenshot of a computer

Description automatically generated

[Mobile Version]

A screenshot of a login form

Description automatically generated

[Main functions]:

* User can change their password by entering the new password in the field and pressing “change password” button. It updates user’s password in the Firebase Authentication system. All checkings are the same as in registration.
* User can sign out of their account and get redirected to the starting page with a jumping SKKU mascot.