North South University

Department of Electrical & Computer Engineering

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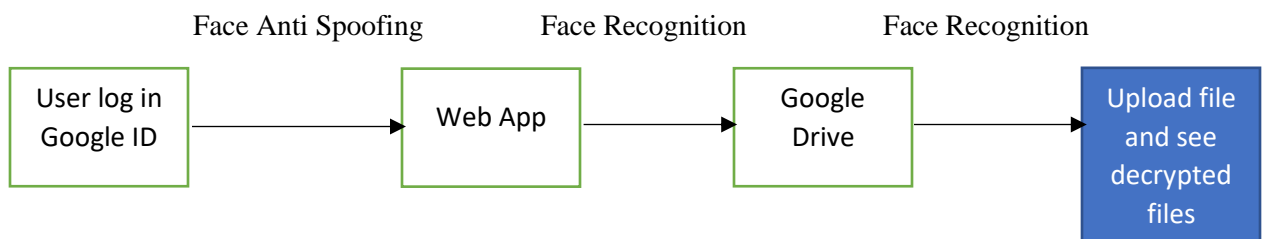**ID:** **1813204042**

Course: CSE299

Section: 06

Faculty: Nabeel Mohammed (NBM)

Introduction: This project is all about web application security management. A user will log in or sign up with his/her google id. While signing up or logging in, s/he will have to go through a face detection process. Then connecting the application with google drive where user will upload their necessary files.
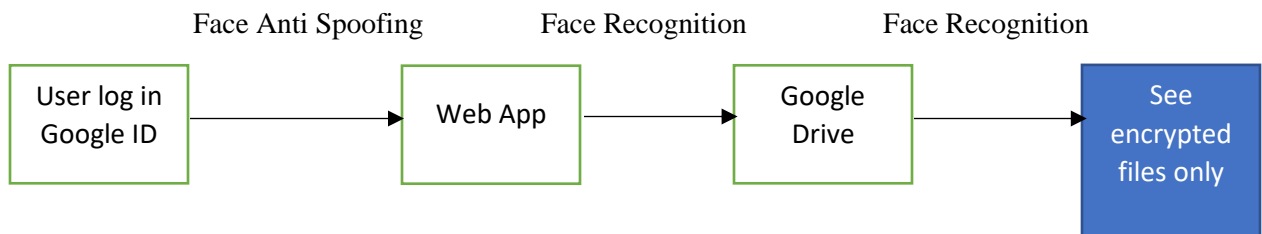
User will be automatically detected through face detection process whenever logged in and see their important files in google drive. If any other person tries to see the files in google drive it will be shown encrypted to them. Because s/he will be detected through face detection process and will be confirmed that s/she is not the owner of that google id.

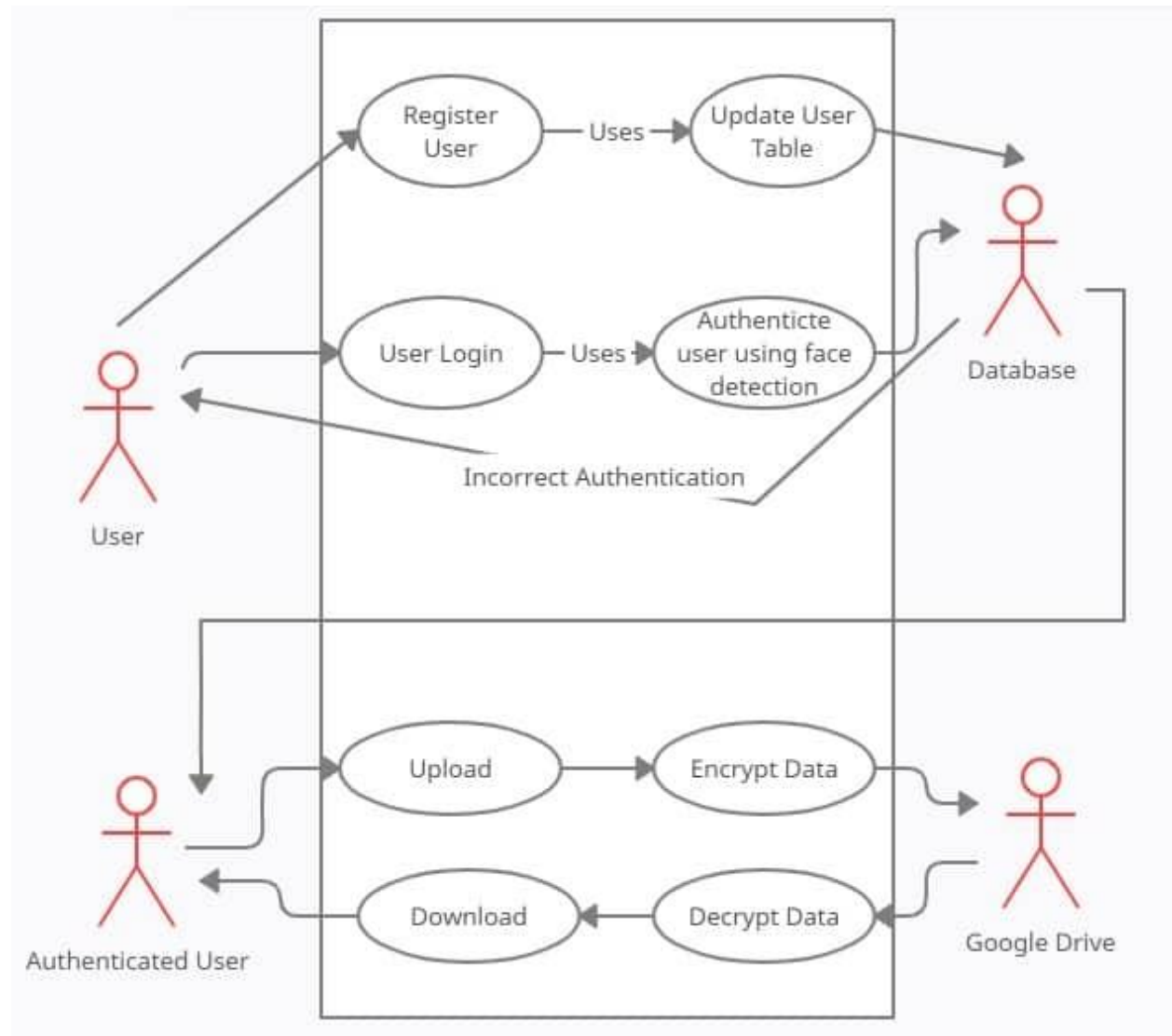You can understand the process by seeing this below.

Whenever a user logs in and upload files or to see files in google drive.

Face Anti Spoofing		Face Recognition		Face Recognition	
User log in Google ID	→	Web App	→	Google Drive	→	Upload file and see decrypted files

If any other person tries to log in and s/he will see encrypted files in google drive.

Face Anti Spoofing		Face Recognition		Face Recognition	
User log in Google ID	→	Web App	→	Google Drive	→	See encrypted files only

Use Case Diagram:

Features of the website that will be used:

Google Drive: Google Drive is a free cloud-based storage service that enables users to store and access files online. The service syncs stored documents, photos and more across all of the user's devices, including mobile devices, tablets and PCs. To get started with Google Drive, the end user must create or sign in to a Google account. Then, the user can either upload files from his or her computer or create files in Google Drive.

Face Anti Spoofing: Facial anti-spoofing is the task of preventing false facial verification by using a photo, video, mask or a different substitute for an authorized person's face. Some examples of attacks: Print attack: The attacker uses someone's photo. The image is printed or displayed on a digital device.

Encryption and Decryption: Encryption is the process by which a readable message is converted to an unreadable form to prevent unauthorized parties from reading it. Decryption is the process of converting an encrypted message back to its original (readable) format. The original message is called the plaintext message. The encrypted message is called the ciphertext message.

Timeline	Milestone	Person Responsible	Status
Week 1	Project Planning	Khandakar Zihadul Hasan	Done
Week 2	Project research about face recognition And google drive API		
Week 3	Implementation login or register page.		
Week 4	Connect Drive to the app and fix bug		
Week 5	Implementation encrypt and decrypt system to the google drive files that a user can be able to upload		
Week 6	Implementation Face recognition that verifies the google id owner		
Week 7	Try to fix bugs and thinks about add features.		

GitHub Link:

https://github.com/Turzoo/Amazing_project.git