

Report

Title

OfficialFaceMash™ (pending)

Team (G4)

Brinal Savsaviya **180010030**

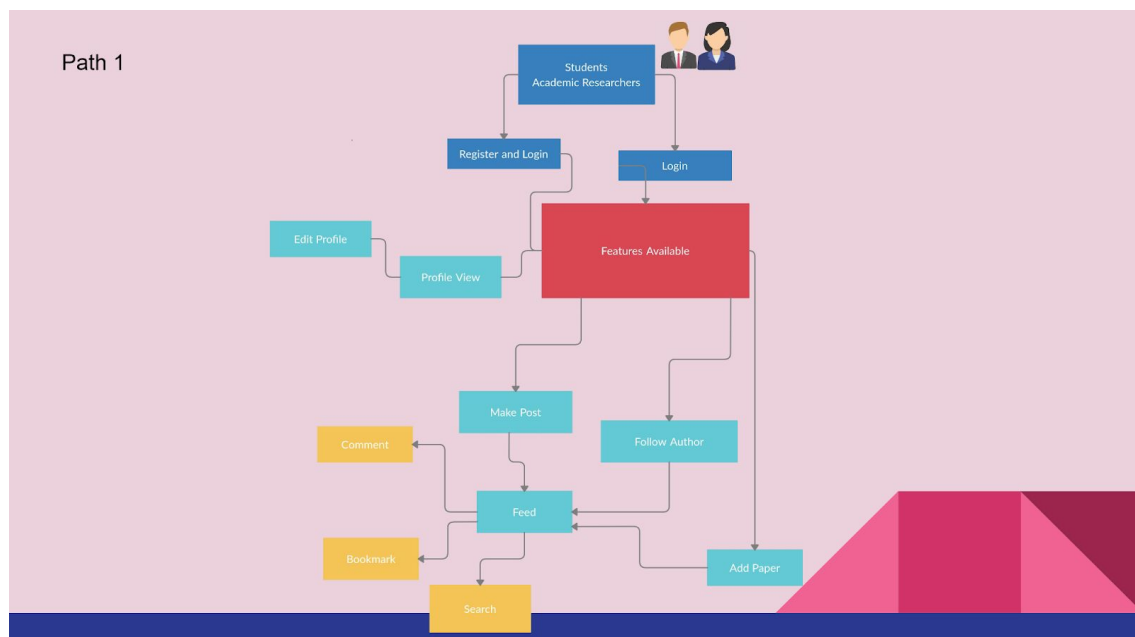
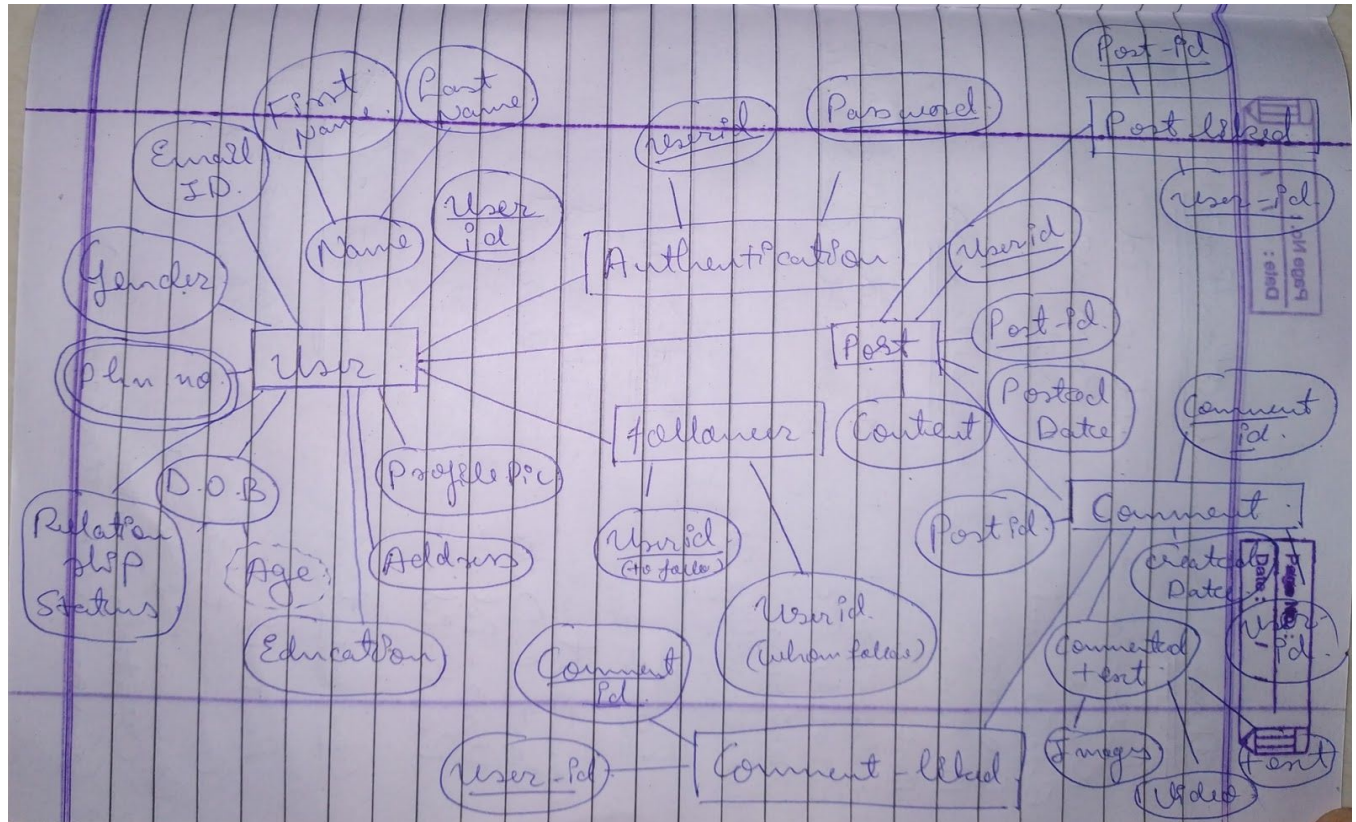
Rutik Dadhaniya **180010013**

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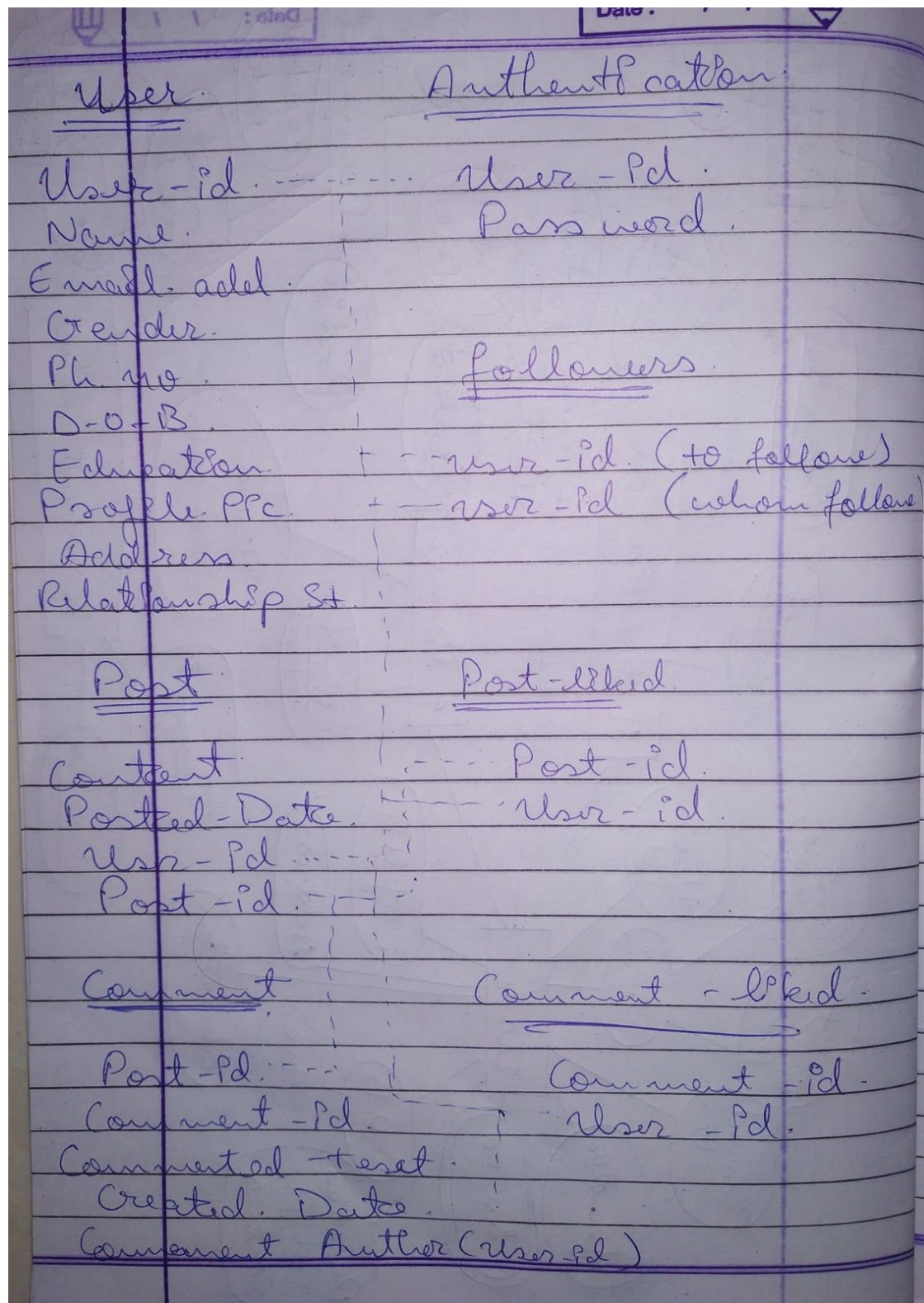
Introduction

We are trying to create a clone of famous social media websites such as Facebook, Instagram, and LinkedIn. We would be creating a complete functionality, including but not limited to authentication, creating posts and comments, finding people to interact with and a complete virtual social experience. The first form was the word mash by itself. This was a slang term in the US in the 1870s for an infatuation or crush (a magazine in 1877 defined it as “a deep but fleeting affection of the heart”).

ER Diagram :-

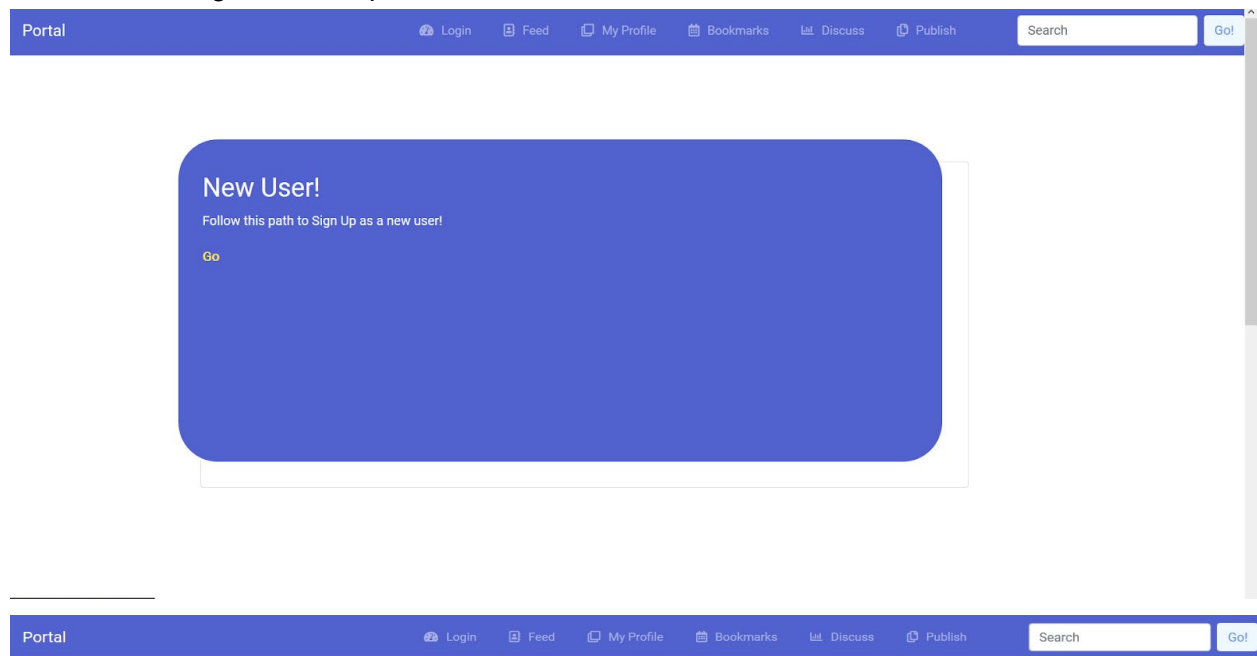


Relational Database Model:-



Interface Design

We are attaching a few sample screenshots of how our website would look like:-



New User? Register Here

- Username:
- First name:
- Last name:
- Password:
- Password confirmation:

Go

Thanks for registering.

✕

- Institution: Other

- Institute email: _____

- Gender:

- Relationship status: Single

- Mobile: +91

- Profile picture: [Browse...](#) No file selected.

[Save](#)

einstein

Insert about me

Authors Followed

[Alan Turing](#) [einstein](#) [newton](#)

Authors Recommended

[stephen](#)

Feed



Create Post



einstein

August 03, 2020

Who is this new guy Stephen Hawking? Is he any good?

★ 0 🗨 0 📌



newton

August 03, 2020

This paper is supposed to be hidden from Einstein!

Authors: [admin](#);[Click here for the full paper](#)

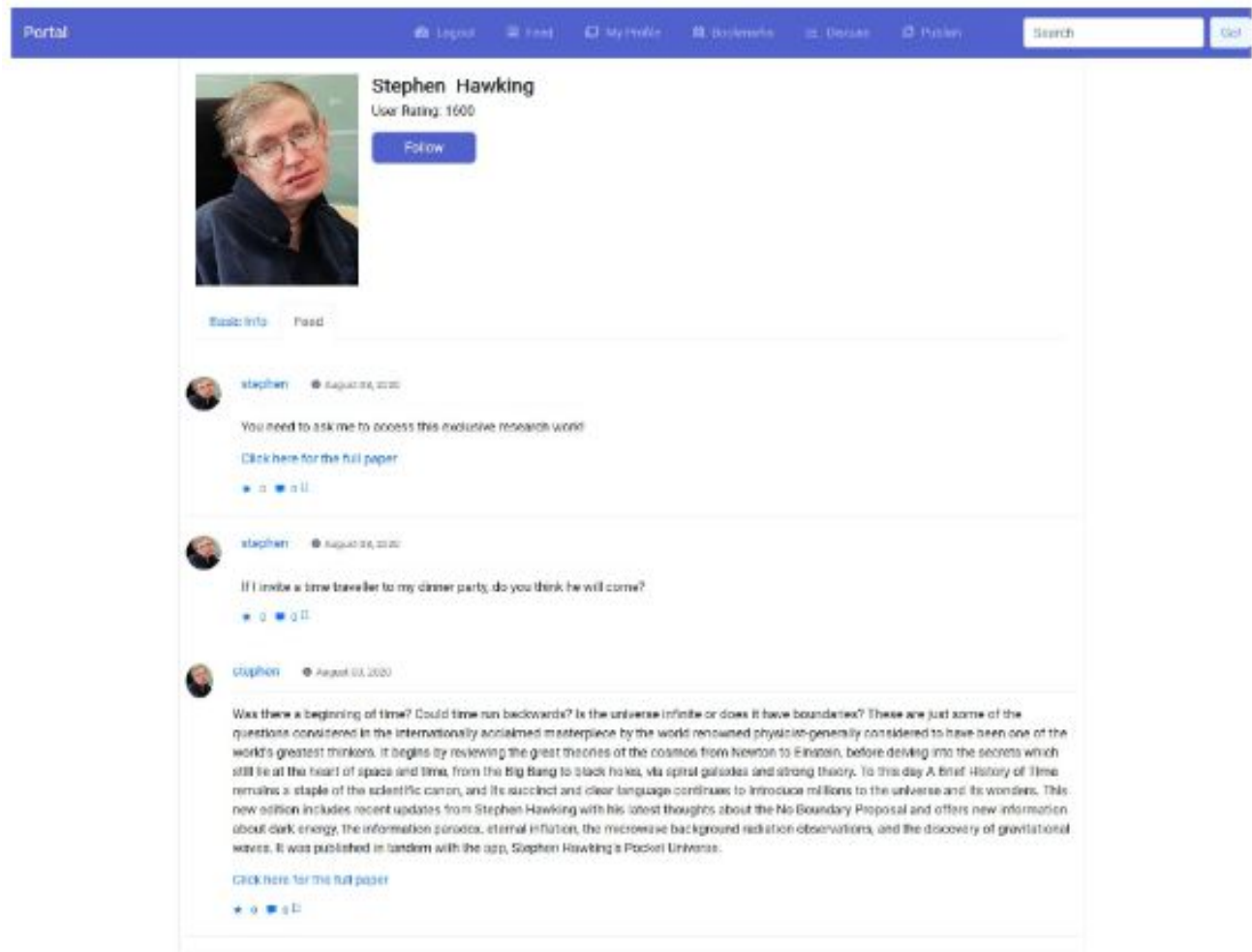
★ 1 🗨 1 📌



newton

August 03, 2020

The Principia deals primarily with massive bodies in motion, initially under a variety of conditions and hypothetical laws of force in both non-resisting and resisting media, thus offering criteria to decide, by observations, which laws of force are operating in phenomena that may be observed. It attempts to cover hypothetical or possible motions both of



Module Design

Feed

After logging in, a user is redirected to his feed. On the top there will be a Navigation Bar for ease of accessibility. On the left, we will have a sidebar, which contains all the information of the logged in User. On the feed itself you can find all the relevant posts listed down one by one. The feed also has an option to create a new post, which redirects the user to a form.

Navigation Menu

The navigation menu items change on the basis of user authentication. After a user logs in, the navigation menu will have options to:

- Logout: Closes his session and signs the user out
- Feed: The default login redirect tab, links to the user feed.
- Profile: Opens the user profile
- Bookmarking: To save posts to view later or for safekeeping

- Post: To create a post.
- Search bar: To find a user

Sidebar (Left side)

The sidebar on the left side of the feed will contain all the information of the logged in user, which includes:

- Display Picture
- Username
- An About-me section
- A list of people followed.
- An ML based recommender system to show a list of recommended authors.
(optional, if time permits)

Post Feed

The feed lists posts by users/researchers/authors followed by the user, to avoid unnecessary clutter on the feed. A User can be followed by clicking on the follow button on the User's profile. The posts are of two type:

- Text Posts: These types of posts can be created by anyone. To create a text post, you click on the Create Post tab on the feed itself.
- Images/Videos Posts: These types of posts can be created by anyone. To create an Images/Videos post, you click on the Create Post same as text posts.

Posts

Both types of posts can be liked by a user. A user can also add a comment on a post. The comments can also be liked by any user. All posts can be bookmarked for future reference. Below each post, post likes and comment stats are displayed. We can click on it to view the full post and its discussion.

Bookmarks The posts can be saved from anywhere as bookmarks, in case we wish to refer to them later. The bookmarked posts can be viewed by clicking on the bookmark tab on the navigation menu. Clicking on the bookmark icon will remove the post from bookmarks.

Data used for execution

We can use as much data as possible but for basic implementation we require 2-3 Users, And their verification details as well as their passwords. We required some posts on particular user profiles which other users can like and comment on that post that data is required. For those 2 different posts we'll make and show how different users like/comment and store that information that others can see who liked/commented on that particular post.

Deviations from previous design(Additional features)

- We have removed the option to add DOB. We want our platform to be age agnostic.
- We have removed the user address field. We do not wish to store sensitive user information. Not until we can ensure user privacy.
- Added paper tags, research papers tables. We have added additional functionalities where users can also publish their research papers and findings. We are transforming our application from a general purpose social network site to a LinkedIn for Researchers.

Add research_paper

File:

Browse...


No file selected.

Title:

Created on:

2020-12-01


Today




Note: You are 5.5 hours ahead of server time.

Authors:

brinal







Hold down "Control", or "Command" on a Mac, to select more than one.

Liked by:


brinal






Hold down "Control", or "Command" on a Mac, to select more than one.

Tags:





Add paper_tag

Tag:

Save and add another

Save and continue editing

SAVE

Work distribution among group

We have divided our project into multiple modules and divided these modules amongst ourselves so that everyone has equal workload.

180010032 would be working with the post feed module, which takes care of the feed itself, adding posts and it's associated transactions, adding comments and it's associated transactions.

180010030 would be working on the authentication, user registration, and searching feature. Also worked on extra Research paper publication.

180010013 would be working with the user profile and all the transactions that can be performed by a user including but not limited to following a user with shown followed users, checking a user's profile and editing own profile.

Conclusion

We learnt how to build scalable, responsive web applications utilising database technologies effectively using Django framework. As a result, we also learnt how MVC architecture in Django works. We also learn manipulation of data queries with different relations. Database systems to help reduce **data redundancy**, employ **data sharing** and maintain **data integrity**. But, by actually developing this app, we actually saw it in action. Using Django along with SQLite, we have also ensured that **data security** and **data consistency** is achieved.