

# Modern Application Development Project Report

## Student details:

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## Project Details:

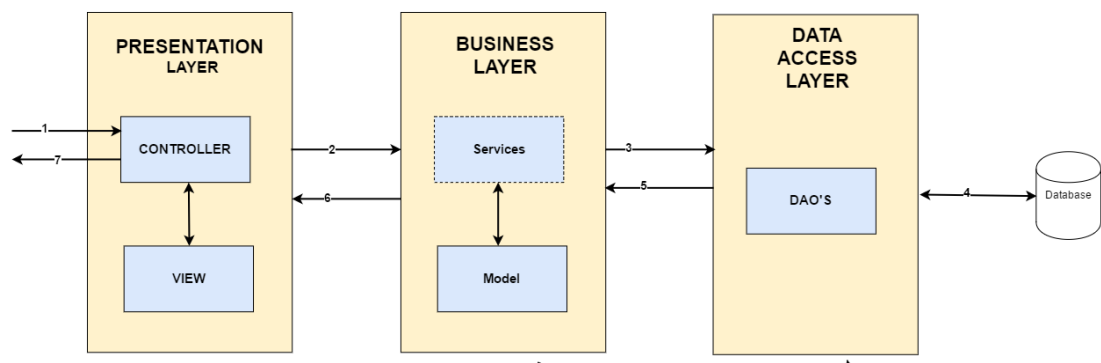
Project Name : Influencer Engagement and Sponsorship Coordination Platform

Question Statement: It's a platform to connect Sponsors and Influencers so that sponsors can get their product/service advertised and influencers can get monetary benefit.

Drive link of the presentation video: [video link](#)

## Approach to design and implementation of project:

Project has been design using 3-tier MVC (Model-View-Controller) architecture. Where view is implemented using HTML. Python, JavaScript & Bootstrap. Controller is using Python where controller contains the application control flow and business logic, model is creating using python having a façade for Database layer.



MVC structure.

- **Model classes** is a façade layer between the Functional classes and database.
- Only Model classes using **db.Model** are used for retrieving and adding the data on the database.
- **Classes.py** file consists of all the functional classes with the logic needed for functions in that.
- The **Controller** file handles the app routes.
- **app.py** finally creates the file.
- **Static and Templates folder** for the View component of the structure.

# Modern Application Development Project Report

## Design considerations:

**User class** is designed as an abstract class contained the base data and function of all the user classes. Further **Admin, Influencer and Sponsor** are three inherited classes from user representing the three key roles in the application. **Campaigns, Ads and requests** being the other three key classes.

## Functionalities implemented:

1. **Login page:** enables all the **three key user** to login and perform the functions allowed for each user in the application.
2. **Registration:** allows all the three users to register themselves in the application.
3. **Admin dashboard:** Allows admin to List, flag, and search functionalities.
4. **Sponsor:** having a dashboard, Search, Campaign creation, Ad creation, request for ad to influencer and negotiating the ad request with influencer. **Sponsor can create a campaign** after which they can **create advertisement**. After creating an add, **requests** can be sent by looking up all the influencers on the system to **multiple or one influencer** at the same time with a different message to each.
5. **Influencer:** having a dashboard, running ads for multiple sponsors, negotiation of ad requests from sponsor et. Influencer will view the request and can **negotiate the payment** amount with a **custom message** to negotiate the terms. After which the request is **sent back to the Sponsor** where they can negotiate further. A request can be **rejected or accepted** at any point in time in the negotiations.

When a **sponsor is deleted**, **all its campaigns** are deleted. When a **campaign is deleted** all **its ads** are deleted. When **an ad** is deleted **all its requests** are deleted.

Flagged and unflagged is not implemented this way yet. If a flagged user tries to login, the app asks them to contact the admin.

## Under development:

1. Statistics screens are in the process of development.
2. Search functionality on user dashboards.

## Frameworks and libraries used:

- Bootstrap 5-modal view
- JS: JQuery (non slim)
- jsdelivr – To handle posts requests on click
- Awesome-font- provides icons
- CSS-some manual styling
- Flask- to define app routes, create the application and the models and datetime
- SQLAlchemy-Database connection and management, matplotlib.

# Modern Application Development Project Report

## ER Diagram:

An **Entity Relationship** (ER) Diagram illustrates how tables (“entities”) relate to each other within a system. ER Diagrams are most often used to design the relational database.

