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# Modern Application Development I

# **Project Statement**

# Influencer Engagement and Sponsorship Coordination Platform

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

#### Frameworks to be used

These are the mandatory frameworks on which the project has to be built.

- Flask for application code
- Jinja2 templates + Bootstrap for HTML generation and styling
- SQLite for data storage

**Note:** All demos should be possible on your local machine.

#### Roles

The platform will have three roles;

#### 1. Admin - root access

- An admin can monitor all the users/campaigns, see all the statistics
- Ability to flag inappropriate campaigns/users



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- requests for a particular campaign.
- Sponsors can create multiple campaigns and track each individual campaign.
- They can accept ad requests by influencers for public campaigns.
- Each Sponsor may have;
  - a. Company Name / Individual Name
  - b. Industry
  - c. Budget

# 3. Influencers - an individual who has significant social media following

- An influencer will receive ad requests, accept or reject ad requests, negotiate terms and resend modified ad requests back to sponsors.
- They can search for ongoing campaigns (which are public), according to category, budget etc. and accept the request.
- An influencer can update their profile page, which is publicly visible.
- Each Influencer profile may have;
  - a. Name
  - b. Category
  - c. Niche
  - d. Reach (can be calculated by number of followers / activity etc.)

#### **Terminologies**

Ad request: A contract between campaign and influencer, stating the requirements of the particular advertisement (E.g. show Samsung s23 in 3 videos for 10 seconds each), the amount to be paid etc.

Ad request may have:

a. campaign\_id (Foreign Key to Campaign table)

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Campaign: A container for ads requests for a particular goal (E.g. advertisement for Samsung s23). It can have multiple Ad requests, a campaign description, budget, ability to set public or private

Campaigns may have:

- a. name
- b. description
- c. start date
- d. end date
- e. budget
- f. visibility (public, private)
- g. goals

#### **Application Wireframe**

#### IESCP wireframe.png

**Note:** The wireframe is provided only to get the flow of the application and what should appear when a specific user navigates from one page to another. It is NOT mandatory to exactly replicate the views given in the wireframe. Students can work on their own frontend idea.

#### **Core Functionalities**

#### 1 Admin login and user login

- A login/register form with fields like username, password etc. for sponsor, influencer and admin login
- You can create separate forms for each type of user
- You can either use a proper login framework, or just use a simple HTML form with username and password (we are not concerned with how secure the login or the app is)
- The app must have a suitable model to store and differentiate all the types of user of the app.



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- requests and their status, flagged sponsors/influencers etc.
- Students can decide what more statistics to be shown apart from the ones given above
- 3. Campaign Management for the sponsors
  - Create a new campaign and categorize it into various niches.
  - Update an existing campaign e.g. start\_date, end\_date, budget
    and/or other fields
  - Delete an existing campaign
- 4. Ad request Management for the sponsors
  - Create ad requests based on the goals on the campaign
  - Edit an existing ad request e.g. influencer\_id, requirements, payment amount, status
  - Delete an existing ad request.
- 5. Search for influencers, public campaigns
  - The sponsors should be able to search for relevant influencers based on their niche, reach, followers etc.
  - The Influencers should be able to search for public campaigns based on their niche, relevance etc.
- 6. Take action on a particular ad requestfor the Influencers
  - Ability to view all the ad requests from all the campaigns
  - Ability to accept/reject a particular ad request
  - Ability to negotiate the "payment\_amount" for a particular ad



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- CRUD of all the components)
- APIs can either be created by returning JSON from a controller or using flask extension like flask restful
- External APIs/libraries for creating charts, e.g. ChartJS
- Implementing frontend validation on all the form fields using HTML5 form validation or JavaScript
- Implementing backend validation within the controllers of your app.

#### **Optional Functionalities**

- Provide styling and aesthetics to your application by creating a beautiful and responsive frontend using simple CSS or Bootstrap
- Incorporate a proper login system to prevent unauthorized access to the app using flask extensions like flask\_login, flask\_security etc.
- Implement a dummy payment portal (just a view taking payment details from sponsors for an ad request)
- Any additional feature you feel is appropriate for the application

#### **Evaluation**

- Student have to create and submit a project report (not more than 2 pages) on the portal along with the actual project submission
- The report must include the following things;
  - Student details
  - Project details, including the question statement



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- API resource endpoints (if any)
- Drive link of the presentation video
- The project report must be included as a PDF inside the root submission folder and NOT along with it.
- All code to be submitted on portal in a single zip file (zipping instructions are given in project document - Project Doc T22024
- Students have to create a brief (3–5 minute) video explaining how you approached the problem, what you have implemented, and any extra features
- The video must be uploaded on the student drive with access to anyone with link and the link must be included in the report
  - This will be viewed during or before the viva, so should be a clear explanation of your work
- Viva: after the video explanation, you are required to give a demo of your work, and answer any questions that the examiner asks
  - This includes making changes as requested and running the code for a live demo
  - Other questions that may be unrelated to the project itself but are relevant for the course

#### Instructions

- This is a live document and will be updated with more details (wireframe)
- We will freeze the problem statement on or before 19th May 2024, beyond which any modifications to the statement will be communicated via proper announcements.



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