

- https://docs.google.com/document/d/e/2PACX-1vSkNI3l6q_QcsK2cKChhxgYErTpUzNo-4...
- ① 7 min read

Project Statement IESCP V2 - MAD II

Project Statement

Influencer Engagement & Sponsorship Coordination Platform - V2

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.

- SQLite for data storage
- Flask for API
- VueJS for UI
- VueJS Advanced with CLI (only if required, not necessary)
- Jinja2 templates if required (Not to be used for UI)
- Bootstrap for HTML generation and styling (No other CSS framework is allowed)
- SQLite for database (No other database is allowed)
- · Redis for caching
- Redis and Celery for batch jobs

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
- 2. Sponsors a company/individual who wants to advertise their product/service
- Sponsors will create campaigns, search for influencers and send ad 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;

- 1. Company Name / Individual Name
- Sa2-Industry
 - 3. 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;
 - 1. Name
 - 2. Category
 - 3. Niche
 - 4. 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:

- 1. campaign_id (Foreign Key to Campaign table)
- 2. influencer_id (Foreign Key to Influencer/user table)
- 3. messages
- 4. requirements
- 5. payment_amount
- 6. status (Pending, Accepted, Rejected)

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:

- 1. name
- 2. description
- 3. start_date
- 4. end_date
- 5. budget
- 6. visibility (public, private)
- 7. 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 (RBAC)
- A login/register form with fields like username, password etc. for sponsor, influencer and admin login
- The application should have only one admin identified by is role.
- You can either use Flask security or JWT based Token based authentication to implement role based access control
- The app must have a suitable model to store and differentiate all the types of user of the app.

2. Admin Dashboard - for the Admin

- The admin should be added automatically whenever a new database is created
- Every new sponsor signup should be approved by the admin
- The request should automatically go to the admin's dashboard for approval
- The application must have an admin dashboard which displays all the relevant statistics of the application, e.g. active users, campaigns (public/private), ad 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 request - for 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

7. Backend Jobs

- Scheduled Job Daily reminders The application should send daily reminders to influencers on g-chat
 Saveusing Google Chat Webhooks or SMS or mail
 - 1. Check if an influencer has not visited/has pending ad request
 - If yes, then send the alert asking them to visit/accept the ad request or checkout the public ad requests
 - 3. The reminder can be sent in the evening, every day (students can choose the time)
 - 2. Scheduled Job Monthly Activity Report Device a monthly report for the sponsors created using HTML and sent via mail.
 - 4. The activity report can consist of campaign details, how many advertisements done, growth in sales of products due to campaigns, budget used/remaining etc.
 - 5. For monthly report to be sent, start a job on first day of every month → create a report using above parameters → send it as email
 - User Triggered Async Job Export as CSV Devise a CSV format details for the campaigns (public/private) created by the sponsor.
 - 1. This export is meant to download the campaign details (description, start_date, end_date, budget, visibility (public, private), goals etc.
 - 2. Have a dashboard from where the sponsor can trigger the export
 - 3. This should trigger a batch job, send an alert once done

8. Performance and Caching

- Add caching where required to increase the performance
- Add cache expiry
- API Performance

Recommended Functionalities

- Well designed PDF reports for Monthly activity report (Students can choose between HTML and PDF reports)
- External APIs/libraries for creating charts, e.g. ChartJS
- Single Responsive UI for both Mobile and Desktop
- · Unified UI that works across devices
- Add to desktop feature
- · Implementing frontend validation on all the form fields using HTML5 form validation or JavaScript
- Implementing backend validation within your APIs

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

- SaveStudent 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 and how you approached the problem statement
 - Frameworks and libraries used
 - ER diagram of your database, including all the tables and their relations
 - 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.
- The project has to be submitted as a single zip file.

Generated with Reader Mode