

# Development

# Winter Assignment

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## Information Management Group

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# BATTLE OF NEW YORK

LAST DATE OF SUBMISSION: Mar 12, 2023

## Overview

Following the win over Loki, the Avengers decided to go on a vacation to give themselves a much-needed break. However, as all of them belong to different planets, and some from different times, Captain America is having difficulty planning the vacation. He and Tony Stark sought your help in developing an 'Avengers Tour Manager'.

The Tour Manager will allow them to plan various trips and schedule events for each day along with managing the requisites and responsibilities.

## Objectives

Don't feel overwhelmed! We have simplified the problem statement for you in order to avoid any confusion.

So, take a deep breath, and dive in!

## Essential Features

Your web application **MUST** contain these features:

### 1. Authentication

Either you are anonymous or you have been forged! So, users should be able to sign-up or login uniquely. When signing up, they may choose to upload a profile picture or go default.



## 2. Dashboard

After logging in, the user lands on a dashboard where they can view all the trips they are part of.

The dashboard should include:

- a. Cards to show all the trips of the user.
- b. An option to create a trip by providing a name, display picture and adding members (which can be selected from other users of the application).

## 3. Tour Screen -

By clicking on a trip in the dashboard the user is redirected to:

### a. Planning screen:

This view facilitates adding questions essential for planning a trip such as the venue of the event, number of days, feasible dates for the event and so on. The questions should be asked in the form of polls, the options to which are added by the members.


On finalization of votes, the members should be provided an option to generate the itinerary screen for the trip.

### b. Itinerary Screen:

While generating the itinerary screen, pass the venue and dates for the trip, which were decided through the polls. Create cards, equal in number to the days of trip, with the name of each card as the dates starting from the start date. Note that, even after generation of this screen, members should be able to edit the title of cards (i.e. dates) and venue.

The itinerary screen consists of the following components:

- I. **Schedule** - For each card (corresponding to the day of the trip), the members should be able to suggest tasks/programs that



can be conducted. On finalization of the events, activities can then be ordered under the cards.

- I. **Requisites and responsibilities** - A separate section is to be made where members can add the duties/things required in managing the trip and assign them to members. For example, things required in a trip can be food, medicines and the responsibility to bring them can be given to a specific member.

#### 4. Profile

The user should be able to see their personal information, like name, and profile photo, along with the option to edit the information.

## Brownie Points

Your application may or may not contain these features, but implementing them will help your project stand out!

1. **Authentication** - Instead of using plain vanilla username and password, you can implement the authentication in these alternative ways:
  - a. Channeli OAuth.
  - b. Email/phone-number and password authentication, where email/phone is verified through OTP.
  - c. Google OAuth
2. **Hosting** - Deploy the application on a server to enable public access through a URL.
3. **Expense Tab** - Integrate an expense tab in the tour screen, where all expenses for the tour can be managed.
4. **Link sharing** - Facilitate logging in to the application and joining a tour using a link generated with respect to a tour.

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## Frequently Asked Questions

**1. Is this an individual or group project?**

This is an individual project for 1st year students.

**2. Is hosting necessary?**

Brownie points for hosting, but be sure to include your app setup instructions in the README file of your GitHub repository!

**3. What tech stack can I use?**

You are free to use anything and everything to build your web application!

**4. Can I follow online tutorials?**

Yes, of course! However, we do not encourage direct copies. We expect you to understand and take inspiration from tutorials, but the core effort should be your own.

**5. Can I submit another project?**

Feel free to work on anything of your choice and send in your best submissions when the deadline approaches.

## Still, have a Question? Ask Us!

We at IMG are here to help throughout your development from a learner to a web developer. Just ping us at any point if you are stuck; we surely like to stick to the motto, "Help will always be provided to those who ask for it."

**Remark:** Please post your queries on the discord server. We would be delighted to see your progress. Even if you don't reach the end, what's most important is that you learned something new. That's all that matters to us. We're always looking for talented developers and designers who have a constant desire to learn and grow. So, please submit your code to us via a GitHub link for a public repository. If your hard work is reflected in your code, you may even get a chance to directly appear for recruitment interviews.

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## All the best!

Stay tuned, as we will soon release the submission form on our recruitment site and social media pages. Keep following us for updates.

