

# Pre-work

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## Problem Statement

We want to create an application that allows candidates to register for tests.

**Task 1:** Build a simple web application that allows the user to do the following:

1. Create an application form.
  - a. Suggested fields: name, email, state, city, subject, test date, time slot
  - b. OTP based email verification should be the first step of the flow, without verification the user can't go/see the next page/other fields.
  - c. Adding captcha is needed while verifying the email address
  - d. State-city and subject-date-time should dependent selection dropdown
  - e. Confirmation email should be sent on successful registration
2. An admin should be able to add new state, city, subject, date, time slots from a different admin login. Admin also can see all the registration data with edit or delete options.

**Task 2:** How would you go about planning this project to ensure it is launched on time? Please include details like which teams you will interact with, how would you come up with the project plan, what would be the key milestones you would keep, how would you define success and ensure a timely successful execution of the project.

## Technology Considerations

1. You can use any tool/tech stack/library to accomplish the above tasks (*for UI React Js would be preferred but not mandatory*)
2. All tasks are mandatory

## Pre-Work Evaluation

Your pre-work will be evaluated on the following criteria:-

1. Front-end user experience (we expect a simple but clean user interface)
2. Database design
3. Coding approach and practices

## Sharing your work

Create a document titled <Your\_Name>\_<email\_address>, it should have the following:

1. URL to a hosted web application or installer file (If you don't have any option to have live hosting you can record your screen demonstrating whole application and each actions)
2. URL to the source code for the work produced (please use GitHub).
3. URL and credentials to connect to the database you have created in Task #1, housing the data provided
4. A diagrammatic/tabular representation of the database design.
5. Your response to Task 2.
6. Please email the pre-work document to the person who sent you the pre-work.
7. ***You have to submit this within 7 days from the date of receiving this pre-work.***