

Challenges Platform Challenge

Challenge Overview

This platform is designed for events like **programming competitions or hackathons**, where participants need a centralized system to manage challenges and submissions. The goal of this challenge is to build a platform that:

- 1. Displays a list of available challenges with downloadable PDFs.
- 2. Provides teams with a dedicated space for managing their assigned challenge and submitting their project.
- 3. Allows an admin to manage all teams, challenges, and submissions efficiently.

The platform should streamline the process of challenge assignments and project submissions, making it easy for both participants and organizers to collaborate.

Requirements

1. Challenge Listing:

- o Display a list of all challenges available in the event.
- Allow participants to download the associated ressources for each challenge.

2. Participants profile:

 allow participants to create an account in the platform that includes basic information about them , and most importantly their team name

3. Team Space:

- Create a personalized space for each team, where they can:
 - View the challenge assigned to them.
 - Submit their solution with details, such as:
 - description of the solution
 - Demo video.
 - Links to resources (e.g., GitHub, Figma).

Evaluation Criteria and Scoring

feature	Description	Points
Challenge Listing	Display a list of all challenges with downloadable PDFs.	15



Participants Profile Creation	Participants can create and manage their account with basic info, including team name.	10
Team Space Creation	Personalized space for each team to see their assigned challenge and submit their project.	15
Solution Submission	Submit their solution with description, demo video, and resource links.	15
Authentication	Secure login system for both participants and admins.	10
Database Design (SQL)	Well-designed database structure, supporting smooth data flow across features with consistency and integrity.	10
Collaboration and Teamwork	Support for collaborative work (e.g. Github issues, use of PRs) as stated above.	10
Code Quality and Best Practices	Adherence to best practices, including code structure and documentation (as stated in GDG docs).	15

Collaboration and Teamwork

An important aspect of this challenge is how well your team collaborates. Follow these best practices to ensure smooth and professional teamwork:

• Create GitHub Issues:

- Use GitHub issues to document tasks, bugs, and ideas.
- Assign issues to team members and set priorities.

• Use Pull Requests (PRs):

- Always create a pull request when merging new code into the main branch.
- PRs must be reviewed and approved by other team members before merging.

• Write Clear Documentation:

- Write meaningful commit messages that describe the changes made.
- Document PRs thoroughly, including:
 - A brief description of the changes.
 - Any specific areas that need review or testing.

• Adopt a Branching Strategy:



• Use branches effectively to isolate new features.

Use the Assigned Technology

Your team will be assigned a specific technology stack for this challenge. Adapting to this stack is an integral part of the test. Ensure you:

- Research and learn the basics of the assigned tools and frameworks.
- Collaborate to divide tasks according to each member's strengths and ability to adapt.
- Make the most of available resources (official documentation, tutorials, forums, etc.).

However, remember that the challenge is time-limited, so don't spend too much time on learning upfront. Focus on learning by doing and working on the project to make the most of the time available.

Follow the Coding Guidelines

Your code must adhere to the coding principles and guidelines specified by the development department in GDG docs.

GDG docs: Link to Coding Guidelines

Important Note !!!

UI design will **not** be evaluated in this challenge. Focus on creating a simple and functional interface that supports the required features. Prioritize **functionality and code quality** over **appearance**.