Testing platform

Exams platform mainly developed for college exams by which teachers make their own questions bank and make exams for a specific group of students, have a fast marking process, get pdf report about the exam and students can have an exam good experience track their progress throw exams.

Technologies:

- **PostgreSQL database.**
- **REST api: NodeJs, ExpressJs.**
- **Front-end: ReactJs.**
- **UI/UX: Figma.**

This platform has two end users:

- **Students**
- **Teachers**
- **Admin**

As overall features:-

From Student's view:

- Have a personal profile.
- Track past exams' progress.
- View what are the coming exams.
- Start and end exams.
- In Exam:
  o Solve questions and save his progress throw reloads.
  o Have good experience in question navigation.
  o Mark questions that need a second look.
  o View solved & unsolved questions.
  o View exam timer.
  o View the question timer if exist.
  o Get his final mark if allowed.
- Improve security to make sure that only the profile owner can start exams.

From the Teacher's view:

- Have a personal profile.
- Track his past exams.
- Create a new question and specify properties:
    - Multi-choose, True or false.
    - The question is in Arabic or English.
    - Create a questions group for easy navigation.
    - Upload many questions using a spreadsheet.
- Create a new exam and specify properties:
    - Exam Title.
    - Timer.
    - Date.
    - Public or private.
    - Question timer or none.
    - The total number of questions.
    - Question mark.
    - All students have the same questions or random ones or the same questions in random order.
    - Minimum mark to pass.
- Allow an exam for a specific predefined group of students:
    - Create group students by uploading data using a spreadsheet.
- Get Exam report (PDF):
    - Exam name and creator.
    - Students' marks.
    - Most wrong answered questions.
    - Top 10 students.
    - The number of failed and passed students.

From Admin's view:

- Review any test.
- Review any account progress.
- Publish any exam instead of the creator.
- Get an exam report.
- Create student accounts and groups.

Version(0) specifications

All data can be removed after each exam.

Users:

- **Student**
- **Admin**

For Student:-

- Log in to an existing account.
- View student's data (nationaID, universityID, Faculty, Name, Level)
- View coming exams.
    - ○ Exam title.
    - ○ Exam date.
    - ○ Start.
- Open Exam details page:
    - ○ Exam title, date.
    - ○ Timer.
    - ○ The total number of questions.
    - ○ Question timer.
    - ○ Creator name.
    - ○ Total mark.
    - ○ Start button.
- Only start the exam when the admin publishes it.
- Solve questions and save the progress for reload cases.
- Mark questions that need a second look.
- View solved & unsolved questions.
- Get the final mark if allowed.

For Admin:-

act as a teacher,

- Create a student group by uploading a spreadsheet.
- View past exams and coming ones (could be edited).
- Create an exam and specify properties:
    - Upload questions spreadsheet.
    - Same questions for all students.
    - Same mark for all questions (how much).
    - Timer in minutes.
    - Questions Timer in seconds.
    - The total number of questions.
    - Total mark.
    - Allow getting the final result.
    - Preview exam button.
- Get Exam report:
    - Exam name and creator.
    - Students' marks.

Exam view:-

- One question per page.
- Exam timer.
- Question timer (or none).
- Mark as "Second look" button.
- Questions navigation.
- Specify a format for unsolved and Second look questions.
- End exam (Are you sure window).
- Result details (if allowed):
    - Passed or not.
    - Total mark.