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.

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:
  - Solve questions and save his progress throw reloads.
  - Have good experience in question navigation.
  - Mark questions that need a second look.
  - View solved & unsolved questions.
  - View exam timer.
  - View the question timer if exist.
  - 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 coming exams.
- Only start the exam when the admin publishes it.
- Solve questions and save the progress for reload cases.
- Get the final mark if allowed.

For Admin:-

act as a teacher,

- Create a questions group by uploading a spreadsheet.
- Create a student group by uploading a spreadsheet.
- Create an exam and add it to a specific group.
- Exam properties:
  - Same questions for all students.
  - Same mark for all questions.
  - Timer.
  - No questions Timer.
  - The total number of questions.
- Get Exam report:
  - Exam name and creator.
  - Students' marks.