

## Documentation

- create project document
- draw architecture diagram
- draw Use cases
- draw ERD (business model)

## initiate Project

- install package ⇒ as npm - node - bootstrap
- create a project skeleton
- create a GitHub account

## Database & Backend

- create a database account
- make a connection to the database
- create database schema
- *database query for user*
  - Query to create a user
  - Query to edit a user
  - Query to delete a user
  - Query to retrieve a user
  - Query to retrieve all users
- *database query for department*
  - Query to create a department
  - Query to edit a department
  - Query to delete a department
  - Query to retrieve a department
  - Query to retrieve all departments
- *database query for category*
  - Query to create a category
  - Query to edit a category
  - Query to delete a category
  - Query to retrieve a category
  - Query to retrieve all categories
- *database query for material*
  - Query to create a material
  - Query to edit a material
  - Query to delete a material
  - Query to retrieve a material
  - Query to retrieve all materials
- *database query for quiz*
  - Query to create a category
  - Query to edit a category
  - Query to delete a category
  - Query to retrieve a category
  - Query to retrieve all categories
- *database query for question*
  - Query to create a question
  - Query to edit a question
  - Query to delete a question
  - Query to retrieve a question by id
  - Query to retrieve all questions related to specific quiz

- *database query for user Quizzes*
  - Query to create a relationship to associate a user with a chosen test
  - Query to retrieve all (quizzes or scores) related to specific user

## **Frontend**

- create splash screen (home page)
- create a login page
- create a registration page
- create a layout
- *Create department Screens*
  - create a page to add department ⇒ admin only
  - create a page to edit department ⇒ admin only
  - create a page to view departments
- *Create a category Screens*
  - create an add category page ⇒ admin only
  - create an edit category page ⇒ admin only
  - create a page to view categories
- *Create a materials Screens*
  - create a page to add materia ⇒ manager only
  - create a page to edit material ⇒ name & desc only not url
  - create a page to view materials
- *Create test Screens*
  - create a page to add quiz ⇒ manager only
  - create a page to edit quiz ⇒ manager only
  - create a page to view a quiz
- create user profile page ⇒ used to change the password or display personal data such as email and password
- create a page to view all users ⇒ user as a manager only
- create a page to view all users scores ⇒ user as a manager only
- create a page to view my scores ⇒ user as a member role