

# **PROJECT PROPOSAL**

## **PROJECT 1**

### **IIT 271-2**

Group No: 11  
**Online Quiz Platform**

Industrial Information Technology  
Degree Programme

Department of Computer Science and Informatics  
Uva Wellassa University  
Sri Lanka  
29<sup>th</sup> May 2023

## Group No: 11

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Supervisor

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# INTRODUCTION

## Project Background

While students are bored of attempting quizzes and the apathy they have towards them inspired us to come up with an interesting solution. The young minds always look for entertainment around them along with exploring knowledgeable stuff. So, we came up with the idea of giving both knowledge and entertainment together.

As a result, we are going to develop an online quiz platform called “[Name]” where users can learn with fun. The main purpose of this idea is to provide users a friendly and interactive environment to educate themselves in the field of technology in an interesting way.

The platform is accessible to four different kinds of users. Admin is one of the user who has control over all the functions and management of the platform. The user can be a person who should register to the system and starts up a game and set up questions according to his/her preference and allow his/her participants to attempt the setup quiz by providing a unique ID. Apart from creating quizzes for a set of participants they themselves can attempt quizzes created by the system according to their preferred area in the tech field.

The participants can attempt the quiz by registering and providing the correct ID given by their mentors and they can get their rewards accordingly. Apart from them, the guest users (Unregistered users) can also view our website and have access to other features of the website. Also, they can try some sample questions up to a certain limit and if they need to continue they should register into the system.

Despite all the basic functionalities we are providing articles, fun facts and much more along with an attractive and responsive interface for the users. The system will be set up in a way where all the user details, questions and the other data will be stored in respective databases securely. And the system will keep track of all the activities and the records. The system may able to provide an effective and user-friendly environment.

### Project aims / Objectives.

- Provide entertainment and productivity to users.
- Educate users on technology related area.
- Test user's knowledge on specific area in technology.
- Provide user friendly platform where users can engage with the website easily.
- Providing responsive website where users can get optimum use in an easy manner.
- Keep track of all the needed information, questions, answers and rewards.
- Managing quiz details, user details.

# PROJECT DESCRIPTION

## Functional requirements

- Registration and login
  - Users can register and login using email address.
  - Admin can login to the platform using a predefined username and password which makes admin the super user.
  - Registered accounts are verified by sending a verification to the email address.
  - By registering users are allowed to start the quiz.
  - Users can view, edit, and manage their account.
- Admin dashboard
  - Creates, update and delete questions.
  - View the results of the participants in the quiz.
  - View the list of registered users and remove and manage users.
  - Manage new updates of the platform.
- User
  - User can register and try the quizzes.
  - Create your own quizzes with a unique ID and time duration.
  - Able to see the participants of the quizzes.
  - Choosing question types (MCQ, drag and drop, true or false).
  - Providing rewards.
  - Viewing statistics of the quiz.
  - Enabling and disabling the participants to view the statistics of the quiz.
  - Create, edit and delete their own questions.
  - Attempt quiz by typing the unique ID.
  - View rewards after completing the quiz.
  - Provide rating and reviews.

- Edit their profiles.
- Guest user
  - View articles.
  - Play demo quizzes.

### Non- Functional requirements.

- Provides user friendly interface.
- Efficient.
- Easy to navigate.
- Ability to provide fast and reliable performance.
- Ensuring the security of user details.
- Providing responsive page and be compatible with all the deliveries.
- Should be maintainable.
- Ensuring the security of the platform.

### User roles

- Admin
  - Login.
  - Manage user details.
  - Create, Update and Delete questions.
  - View and remove users.
  - View quiz results of users.
- Instructor
  - Customize questions.
  - Create a unique id.

- View participants of his quiz.
- Choose the question type to display.
- View the statistics of the quiz.
- Provide rewards / score for the quiz.
- Enabling / disabling participants from viewing the statistics of the attempted quiz.
- Stop the quiz.
- Provide ratings and reviews.
- Change or delete created questions.
- Attempt quizzes from the question bank of the website.

- Participant

- Providing correct Id given by the instructor.
- Attempt quizzes.
- View rewards.

- Guest user

- View the website.
- View blog.
- Attempt sample quiz questions.



## METHODOLOGY

Our website is a user friendly environment where we are looking forward to fulfilling all the necessary requirements to be to the point. So, to develop this website we have chosen incremental development methodology.

Incremental development model is a process of software development life cycle which go through few steps such as,

- Requirement analysis
- Design and development
- System testing
- Implementation

The above process take place as multiple iterations and produces multiple versions for the customer to ensure the requirements are met. And the final version is hand overed after the completion.

As regards our website we can develop the home page, then login page and then quiz creation and so on.

This allows flexibility and adaptability in the development process while ensuring that the final product meets all the functional and nonfunctional requirements and reduces the risks of project failure.

Usually, this methodology is used when there are chances of changing requirements during the development process. So, this is the most suitable methodology to be used for the development of an online quiz platform.

## RESOURCES

### Software resources.

#### 1. XAMPP server

- XAMPP is a free open-source cross platform web server stack package. XAMPP is used to test a website locally before releasing it to the main server.

#### 2. Visual studio code

- Visual studio code is a code editor used to run task and debugging during the development phase.

#### 3. Star UML

- Star UML is a Unified Modeling Language (UML) used to support as a tool in software modeling. It is an open source software modeling tool.

#### 4. Photoshop

- Photoshop is a paid software used to edit photos and graphic editor. It can also be used as a UI sketcher.

#### 5. Postman API

- Postman is an API platform used for building and using APIs.

#### 6. Microsoft Word and Microsoft PowerPoint

- Microsoft word is word processing software and Microsoft power point is presentation a by Microsoft office 365.
- Both the Microsoft word and Microsoft PowerPoint is used for documentation of simple and complex documents.

#### 7. Freepik

- Freepik is a search engine that helps to find high quality photos and images.

## Hardware resources

- Laptop
- Mobile

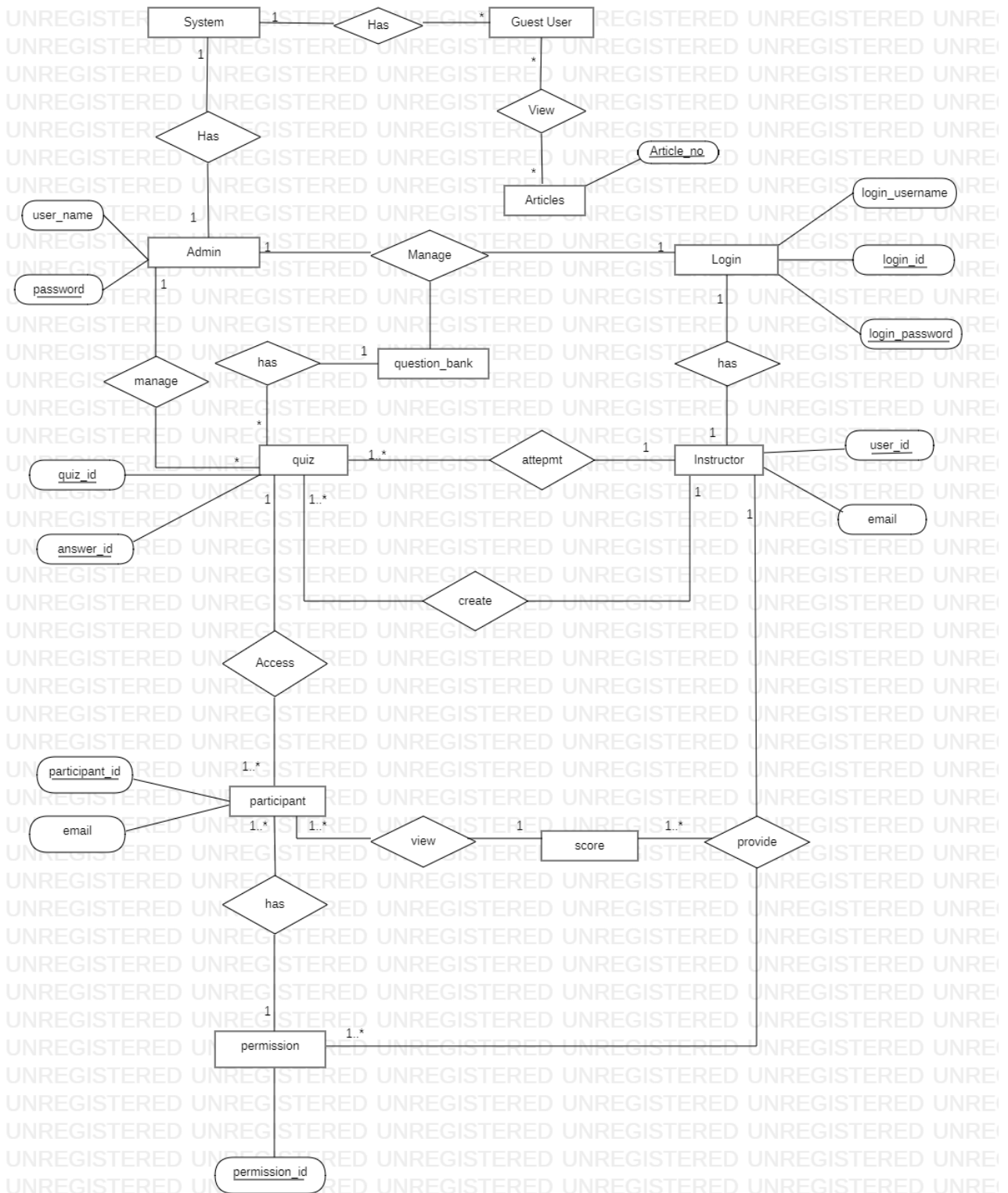
## Technologies

- CSS 3
- HTML 5
- PHP
- MYSQL
- JavaScript
- Framework (Bootstrap, ReactJS)
- APIs

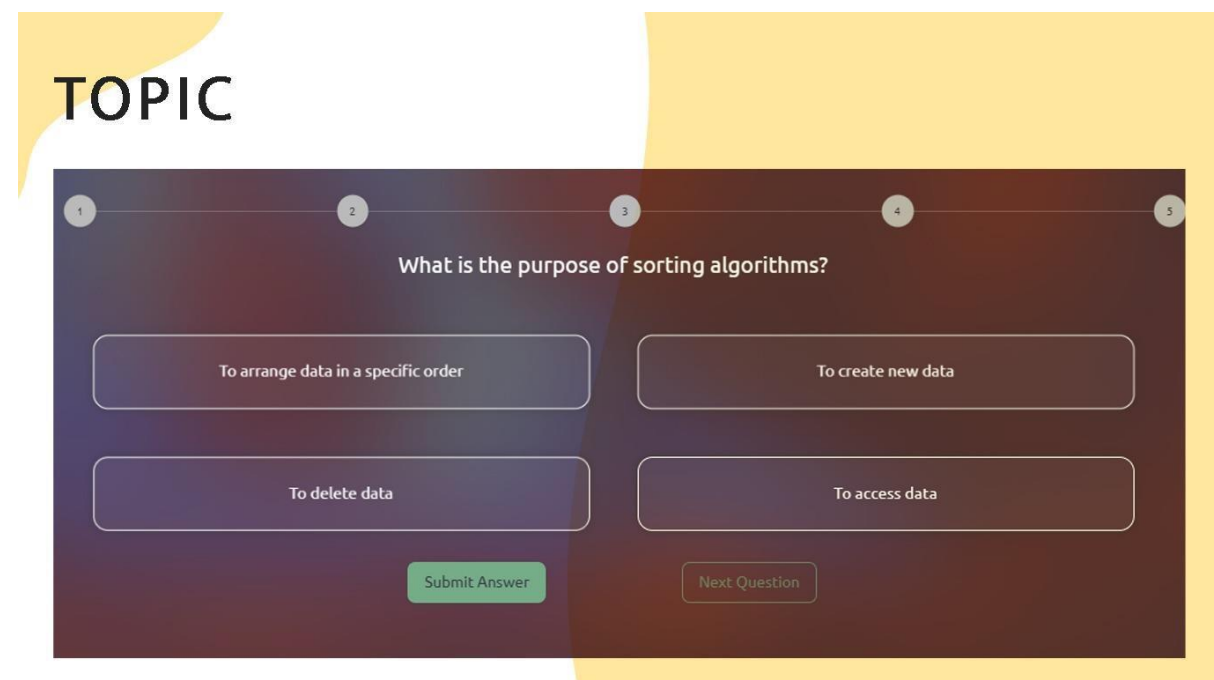
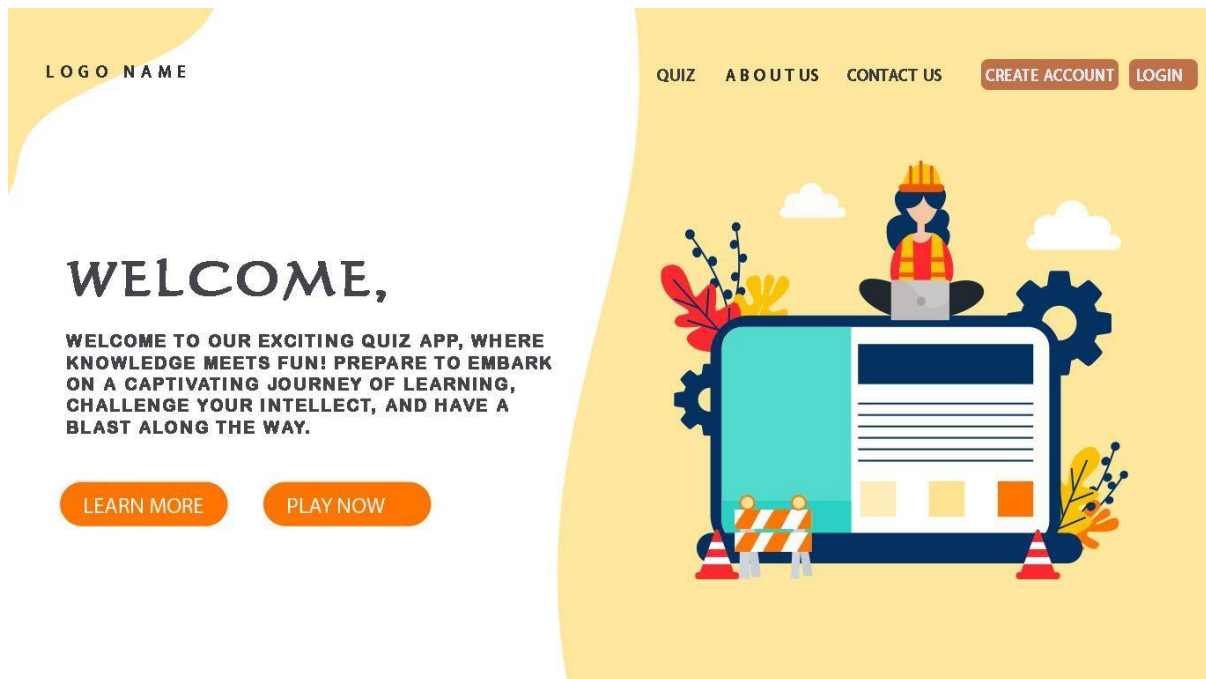
## PROJECT PLAN

	Task	Week														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Topic Identification & Requirement Gathering															
2	Requirement analysis & specification															
3	Proposal Submission															
4	Proposal Presentation															
5	System Designing															
6	Developing user interface															
7	Design and Development															
8	Unit Testing															
9	Progress Presentation															
10	System Implementation															
11	System Testing															
12	Final Report submission															
13	Documentation															
14	Final presentation															

# ER DIAGRAM



## UI ROUGH SKETCH



## INDIVIDUAL CONTRIBUTIONS

<b>Contributing area</b>	<b>No of members</b>
Admin dashboard	2
User registration	1
User profile management	1
Quiz creation	1
AI module	1