Online Exam System

Case Study

Topic – HACKATHON
Domain - Transportation

Project Abstract:

- Online Examination System can reduce the hectic job of assessing the answers given by candidates manually.
- Responses or the answers by the candidates can be checked automatically and instantly.
- It will reduce paperwork to be an integrated Online Examination System.
- The result can be shown immediately to the students reducing the anxiety.
- Can create various reports and graphs for evaluation purpose almost instantly when and where required.

Problem Statement:

HAKATHON project is a web portal which is developed or implemented in Java/.NET domain or platform. This project is helpful for students, companies or any organization to conduct any examinations from this site. In this age of increased competition, various companies, organization's face a common problem of conducting online exam by personally visiting to different colleges (in case of companies) for placement drives. Manually going through thousands of colleges and conducting interviews requires a lot of time, efforts and money, this is the reason that most of the companies prefer visiting only top most colleges. The students of low-grade colleges despite of having the caliber to compete are not getting enough exposure to job profiles of their choices and end up getting a low satisfying job. To reduce this gap between these companies or any organization and such potential candidates this platform will help the deserving candidates to showcase their conceptual skills through an online exam, based on which, the companies can filter out candidates according to their needs. Basically, we are providing an online exam system where we host exams to create report of candidates which can be viewed by the companies. This will not only help the companies or any organization to analyze and select the cream candidates which meet company's requirements but also, help the students to get exposure to enough companies.

Mandatory Modules:

Modules
1. User Module
2. Admin Module

Module Description:
1. **User Module**

   In this module, there will be a home page where the user will first have to login by entering 'login id' and 'password' to get access, if the user is visiting for the first time then user will have to click on the 'NEW REGISTRATION' button and will be directed to the new registration page where the user has to enter the all necessary required details

mentioned on that page and then click on the 'SUBMIT' button, after which the user again will be directed to the homepage. If user has forgotten the 'password' then the user can click on 'forgot password?' link and then system will send a 'reset password' link on the email the user had provided at the time of registration. After login the user will get access to the 'REPORT' button and 'NEW EXAM' button. Before login if the user tries to get access to these buttons then the user will be directed to the homepage again and ask user to login first with a popup. Now if the user is logged in, then the user will be able to view user report of the exam the user has appeared for by clicking on the 'REPORT' button to view the user's score and along with this the user can appear for the new exam by clicking on the 'NEW EXAM' button. After clicking on the new exam button, the user will be directed to the exam instruction page which will have a 'START' button which on click will take the user to the exam page. The exam is categorized into three levels starting from level 1 to the level 3. The difficulty of the exams increases as the levels increase. There is a minimum passing criterion at each level. The user will be permitted to appear for the level 2 exam only if he passes the level 1 exam and so. After clearing any level, a report card will be generated and displayed immediately to the user. The ones who have cleared the level 1 exam there on the report card they will be provided with a button to start the level 2 exam and so on. The candidates who have not cleared the exam will be provided with a 'LOGOUT' button. Every level exam is minimum time bounded.

2. **Admin Module:**
   In this module the admin will be able login by entering 'login id' and 'password'. The 'login id' and 'password' will be inbuilt for admin. The admin after logged in will be directed to a new page where the admin can click on the 'VIEW REPORTS' button which on click will direct the admin to a new page where the admin will be able to enter necessary fields to fetch the students details according to the demand from the client. Also, after login the admin will be able to add question or remove question by clicking on 'ADD QUESTIONS FILE' button or 'REMOVE QUESTIONS FILE' button. If the admin clicks on the 'Add Question' button, then the admin will be directed to a new page where the admin will have to click on the 'BROWSE' button to upload the excel file of questions provided by the client in a desired format. After clicking on 'UPLOAD button the file will be uploaded to the database. If the admin clicks on the 'Remove Question' button, then the admin will again be directed to a new page where the admin will have to enter the file name admin wants to delete in the provided field and click on 'DELETE' button to delete the file.

Sample Output Screen for reference:

1.User Module
1.1 Home page

Home   About Us   Login   Register

Report

New Exam

1.2 Register

Full Name:

Email:

Mobile:

DOB:

City: State:

Qualification:

Year of
completion:

Captcha

Register

1.3 Login

Email-id:

Password:

Forgot Password?

Login

Don't have an account Register here.

1.4 Reset password

We have sent a reset password link to your email.

New Password

Confirm Password

Reset

1.5 Exam Page

Select exam   Logout

Java	SQL	PHP
C/C++	Python	C#/.net

Instruction for Technical Test Logout

Start Exam

2:30

Level 1
Current Question 1/10

What is correct syntax?
- o Public class ABC extends PQR extends students
- o Int I =" A";
- o String A=" hello";
- o Private class ABC

| Next | Finish |

1.6 Report card

Thank You!!!!
You have cleared the level 1
You can Proceed to level 2

Level 2

Name:
Score:
Level:
Test:

Exit

2. Admin Module
2.1. Login

Email-id:

Password:

Login   Forgot Password?

2.2. Admin Profile

Home	About Us		Logout

ADD Questions

Remove Question

View Reports

2.3 Add Questions OR Remove Questions

Logout

Select Test: .NET ▼

Select File: ▼

Remove

Question to be added………

a. Option 1
b. Option 2
c. Option 3
d. Option 4

Correct

Add Logout

2.3 Search Students

Technology	.NET ▼	
State	Maharashtra ▼	
City	Mumbai ▼	
Levels	Levels ▼	
Marks	▼	
	Search Students	

Name	Email-Id	Mobile number	City	State

Agile Methodology:

Abstract:

Agile development is a group of software development methodology based on iterative and incremental development, in which requirements and solutions evolve through collaboration between self-organizing, cross-functional teams.
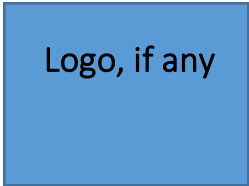
Steps to follow in Agile methodology:
- You need to identify various user stories and its modules/tasks which needs to be implemented in the project as a part of Sprint planning.
- Divide all the user stories in two Sprints. Duration of each Sprint will be 3 days.
- Any backlogs of Sprint 1 should be included in Sprint 2 along with stories of Sprint 2.
- You need to prepare Scrum boards for each sprint. You can include both sprints in one scrum board if there is enough space for the same.

Instructions for writing scrum board:
- Chart papers, sketch pens, measurement scale and sticky notes will be provided for scrum board preparation.
- You need to decorate your scrum board well and it should be clean, visible and self-explanatory.
- Discover a unique name for your project.
- Mention Group Number, TL and group member's name in the scrum board.

LTI

Format for Scrum Board:

Your Project Name					
Team Leader: <Name> Group Members: 1. 2. 3.				Logo, if any	
User Story	TO DO	In Progress	Impediments	To Verify	Done