

TEST BOARD

ONLINE TEST TAKING SYSTEM

Programmer's Documentation

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INTRODUCTION

'Test Board' is an online test taking system that allows students to register and attempt for tests based on the courses they have opted for. Post the submission of a test, it allows the students to view their scores, grade and feedback from faculty if any. Students are given the option to select from the available date and time slots for a particular exam to register for the test.

Faculty can also login to the application to set the date and time slots and time duration for a specific course test they teach. They have an option to set the questions and multiple choice options for a particular test.

Tools used in the making of this application are stated as follows:

<i>Programming tools</i>	
Java SE	1.7 or above
<i>Integrated Development Environment</i>	
Eclipse	Neon
<i>Database</i>	
MySQL	5.7.14
<i>Server</i>	
Apache Tomcat	8.0
<i>Java Database Connector</i>	
MySQL JDBC (Connector/J)	5.1.39
<i>Apache Math Libraries, Java Beans</i>	

Deployment of Enterprise Applications:

Deployment refers to all the activities needed in order to make an application system available for use.

Enterprise applications after being implemented successfully can be deployed in 2 ways:

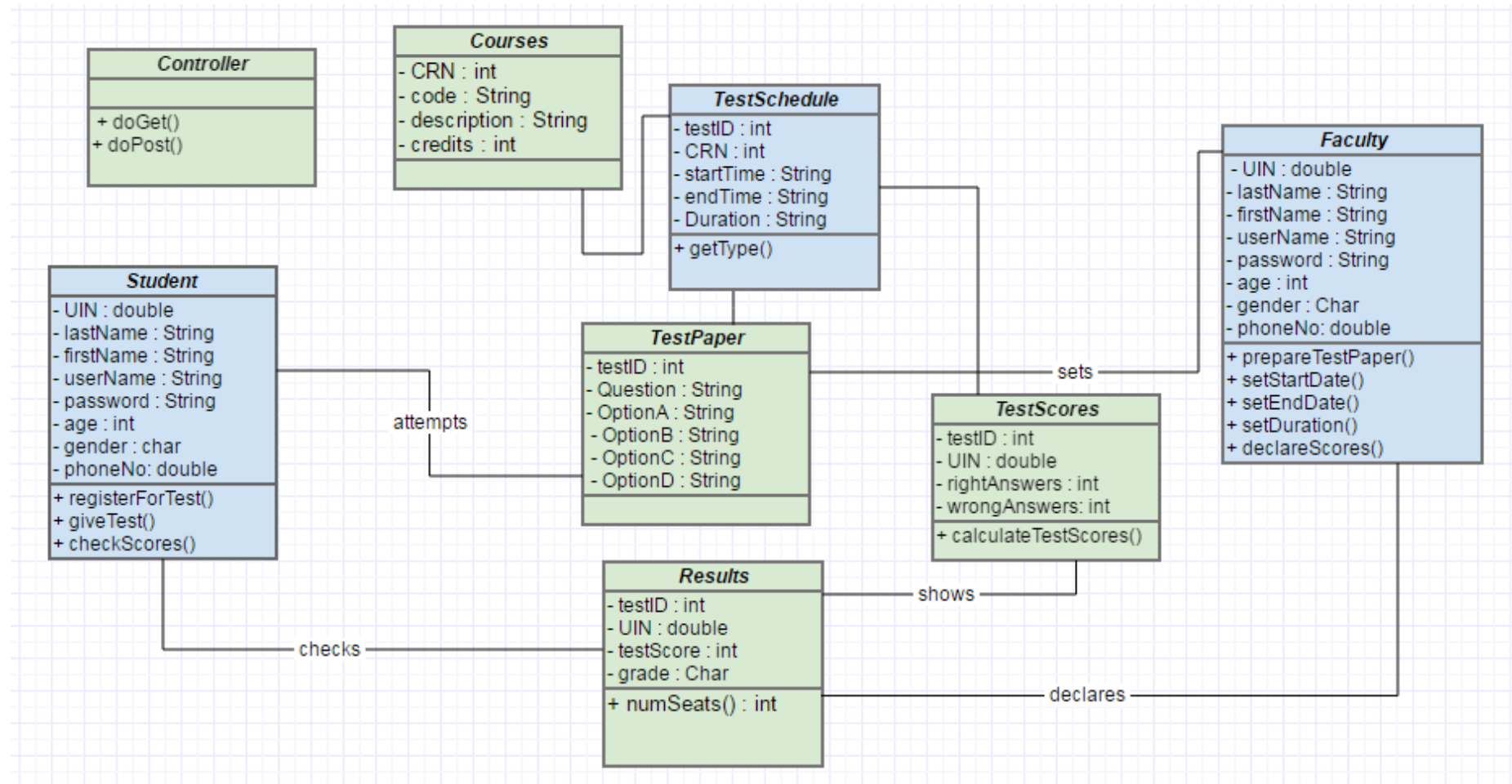
- Use 2 host Servers:** Use one for client application | use another for the database
- Use 1 host Server:** Use one server to host both the client application and database

Types of Enterprise Application Deployments:

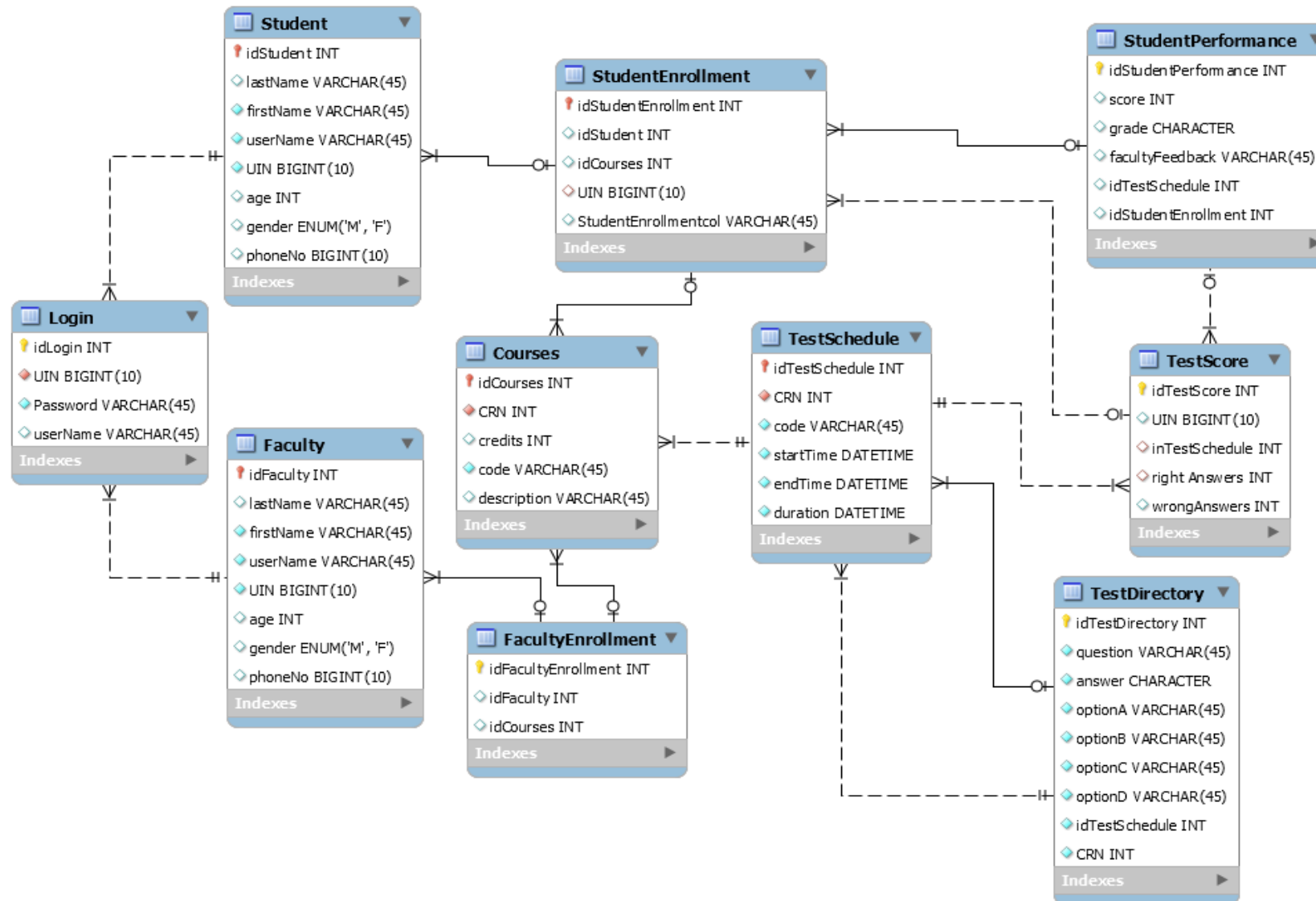
Various resources are available which helps in deploying complex software on different environments, contents and stacks. Some of them are as follows:

- a. Deployments in SDLC:** In this case, the deployment process happens after the successful completion of every stage of a software development lifecycle. E.g. after Development, testing, production etc.
- b. Deployment by Type of Application:** This type refers the resources on how to deploy diverse types of applications like web apps, enterprise applications and mobile apps.
- c. Deploying Locally, Virtualized or on the Cloud:** This type refers on how to deploy enterprise applications to different computing models:
 - Local machines
 - Virtualized machines
 - Cloud instances
- d. Deployment by Stack:** This type refers on how to deploy enterprise applications on a common technology stack like J2EE, OpenStack and LAMP.

UML DIAGRAM



ENTITY RELATIONSHIP DIAGRAM (ER)



VIEW COMPONENTS

Login Page (Student):

ONLINE TEST TAKING SYSTEM
LOGIN

Enter Username

Enter Password :

Login

Forgot Password

This mockup shows a login form for a student. It features a title box with 'ONLINE TEST TAKING SYSTEM' and 'LOGIN'. Below are two input fields: 'Enter Username' and 'Enter Password :'. A blue 'Login' button is positioned below the password field, and a yellow 'Forgot Password' button is located at the bottom.

HomePage (Student):

ONLINE TEST TAKING SYSTEM
HOMEPAGE

Select Course :

Register for Test View Scores

The homepage mockup includes a title box with 'ONLINE TEST TAKING SYSTEM' and 'HOMEPAGE'. It contains a 'Select Course :' dropdown menu. At the bottom, there are two blue buttons: 'Register for Test' and 'View Scores'.

Test Registration Page (student):

ONLINE TEST TAKING SYSTEM
TEST REGISTRATION

Select test date

Select test time

Register

The test registration page mockup has a title box with 'ONLINE TEST TAKING SYSTEM' and 'TEST REGISTRATION'. It includes three input fields: an empty one at the top, 'Select test date', and 'Select test time'. A blue 'Register' button is at the bottom.

Test Page (Student):

ONLINE TEST TAKING SYSTEM
TEST

1. Question 1?

d) c)

a) b)

Submit

The test page mockup features a title box with 'ONLINE TEST TAKING SYSTEM' and 'TEST'. It displays a question '1. Question 1?' followed by four input fields for answers 'd)', 'c)', 'a)', and 'b)'. A blue 'Submit' button is at the bottom.

View Scores Page (Student):

ONLINE TEST TAKING SYSTEM
VIEW SCORES

Scores :

/

Grade :

Faculty

Back

Logout

Set Test Paper Page (Faculty):

ONLINE TEST TAKING SYSTEM
SET TEST SCHEDULE

Select test date

Select test time

Set Test

Back

Login (Faculty):

ONLINE TEST TAKING SYSTEM
LOGIN

Enter Username:

Enter Password :

Login

Forgot Password

HomePage (Faculty):

ONLINE TEST TAKING SYSTEM
HOMEPAGE

Select Course :

▼

Register for Test

View Scores

Set Test Page (Faculty):

ONLINE TEST TAKING SYSTEM
SET TEST PAPER

1. Set Question 1?

f)

e)

h)

g)

Submit

Declare Scores Page (Faculty):

ONLINE TEST TAKING SYSTEM
DECLARE SCORES

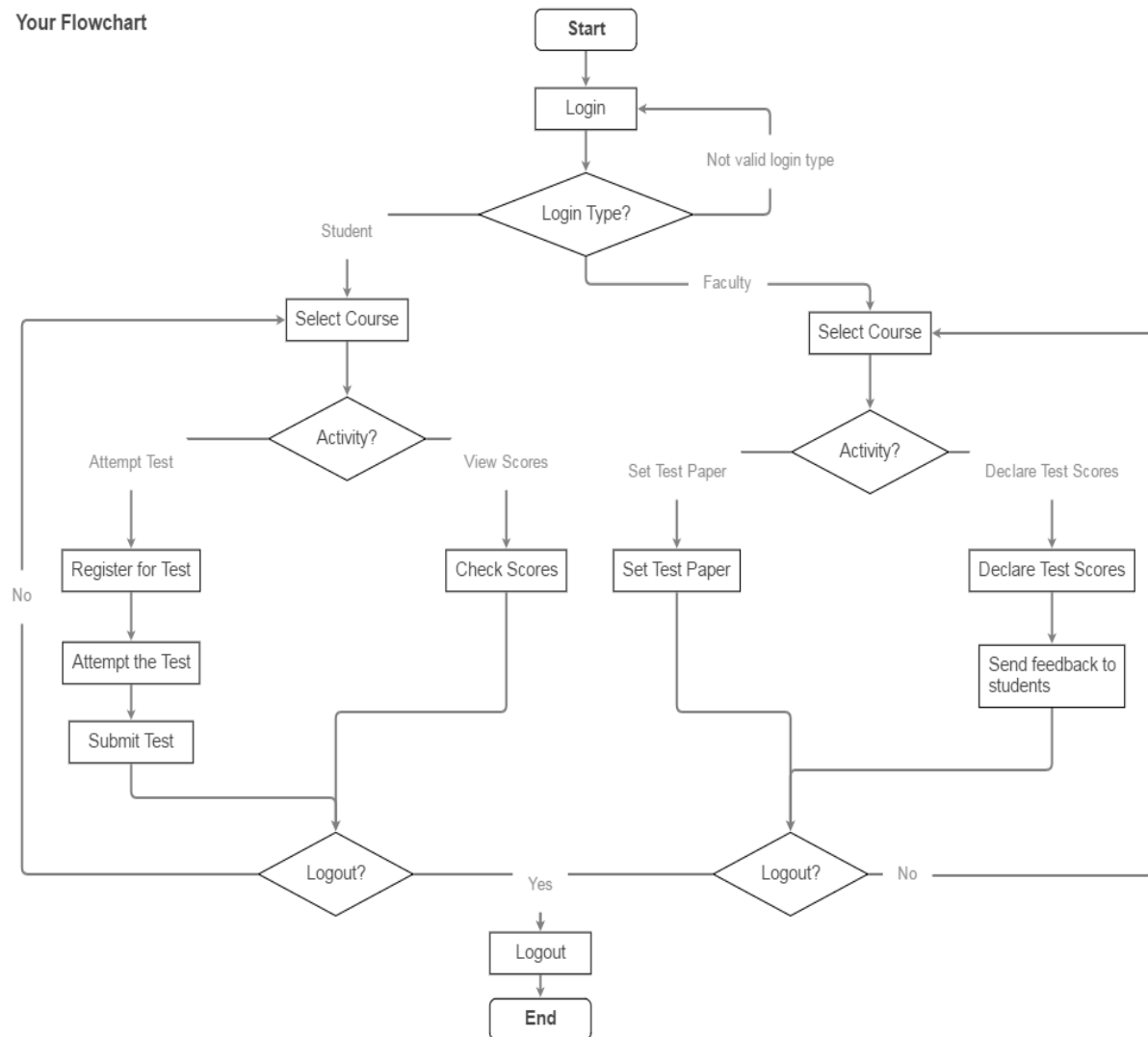
Name	Scores	Grade	Feedback

Back

Logout

FLOW CHART DIAGRAM

Your Flowchart



REFERENCES

<http://electric-cloud.com/wiki/display/releasemanagement/Enterprise+Application+Deployment#EnterpriseApplicationDeployment-Howto>