

Project Report
On
“Online Examination System”



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CERTIFICATE

This is to certify that this report embodies the original work done by **Sanjeev Jaiswal, Neeta Bhavnani and Rupendra Sharma** during this project submission as a partial fulfillment of the requirement for the System Design Project of Masters of Computer Application IV Semester, of the Rajasthan Technical University, Kota.

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SYNOPSIS

ONLINE TEST SYSTEM

PURPOSE:

The purpose of on-line test simulator is to take online test in an efficient manner and no time wasting for checking the paper. The main objective of on-line test simulator is to efficiently evaluate the candidate thoroughly through a fully automated system that not only saves lot of time but also gives fast results.

For students they give papers according to their convenience and time and there is no need of using extra thing like paper, pen etc.

SCOPE:

Scope of this project is very broad in terms of other manually taking exams.

Few of them are:-

- This can be used in educational institutions as well as in corporate world.
- Can be used anywhere any time as it is a web based application(user Location doesn't matter).
- No restriction that examiner has to be present when the candidate takes the test.

FEATURES:

- Secure
- Easy to use
- Reliable and accurate
- No need of examiner

OVERVIEW:

The online test created for taking online test has following stages

- Login
- Test
- Result

Login:-

There is a quality login window because this is more secure than other login forms as in a normal login window there are multiple logins available so that more than one person can access to test with there individual login. But in this project there is only one login id i.e. administrator id and password by which a person enter the site. Hence it is more secure and reliable than previously used on-line test simulators.

TEST:

Test page is the most creative and important page in this project. It consists of 2 modules namely:

- ❖ Subject selection
- ❖ Utilities

Subject selection:-

From the given choices the candidate can select his field (like C, C++ and JAVA etc) for taking on with the test.

Utilities:-

It includes:-

- ❖ Skip and come back to the question afterwards if needed.
- ❖ Gives the list of attempted and unattempted questions and can go to any question directly and can either attempt or change the answer of the already attempted question.

TECHNOLOGIES USED

Front end as:

HTML

Back end as:

Advance Java

Server:

Apache tomcat 6.0

Database:

Microsoft access

Querying language:

Sql

FEASIBILITY STUDY

FEASIBILITY STUDY

1.) ECONOMIC FEASIBILITY

Economic analysis is most frequently used for evaluation of the effectiveness of the system. More commonly known as cost/benefit analysis the procedure is to determine the benefit and saving that are expected from a system and compare them with costs, decisions are made to design and implement the system.

This part of feasibility study gives the top management the economic justification for the new system. This is an important input to the management, because very often the top management does not like to get confounded by the various technicalities that bound to be associated with a project of this kind. A simple economic analysis that gives the actual comparison of costs and benefits is much more meaningful in such cases.

In the system, the organization is most satisfied by economic feasibility. Because, if the organization implements this system, it need not require any additional hardware resources as well as it will be saving a lot of time.

2.) TECHNICAL FEASIBILITY

Technical feasibility centers on the existing manual system of the test management process and to what extent it can support the system. According to feasibility analysis procedure the technical feasibility of the system is analyzed and the technical requirements such as software facilities, procedure, inputs are identified. It is also one of the important phases of the system development activities.

The system offers greater levels of user friendliness combined with greater processing speed. Therefore, the cost of maintenance can be reduced. Since,

processing speed is very high and the work is reduced in the maintenance point of view management convince that the project is operationally feasible.

3) BEHAVIOURAL FEASIBILITY

People are inherently resistant to change and computer has been known to facilitate changes. An estimate should be made of how strong the user is likely to move towards the development of computerized system. These are various levels of users in order to ensure proper authentication and authorization and security of sensitive data of the organization.

EXISTING SYSTEM

The whole process of assigning test and evaluating their scores after the test, was done manually till date. Processing the test paper i.e. checking and distributing respective scores used to take time when the software was not installed.

DISADVANTAGES OF CURRENT SYSTEM

- The current system is very time consuming.
- It is very difficult to analyze the exam manually.
- To take exam of more candidates more invigilators are required but no need of invigilator in case of on line exam.
- Results are not precise as calculation and evaluations are done manually.
- The chances of paper leakage are more in current system as compared to proposed system.

Result processing takes more time as it is done manually

CHAREACTERSTIC OF THE PROPOSED SYSTEM

The online test created for taking online test has following features

- In comparison to the present system the proposed system will be less time consuming and is more efficient.
- Analysis will be very easy in proposed system as it is automated
- Result will be very precise and accurate and will be declared in very short span of time because calculation and evaluations are done by the simulator itself.
- The proposed system is very secure as no chances of leakage of question paper as it is dependent on the administrator only.
- The logs of appeared candidates and their marks are stored and can be backup for future use

Data Tables

Admin Table:

S.No.	Field name	Data Type	Description
1.	User name	Text	Store user name for checking correct username
2.	Password	Text	Store password corresponding to username
3.	User Type	Text	User Type Administrator or User

Teacher Table:

S.No.	Field name	Data Type	Description
1.	Teacher Id	Number	Unique key for Every Teacher
2.	Teacher Name	Text	Name of Teacher

Attendance Table:

S.No.	Field name	Data Type	Description
1.	Student Name	Text	Name of Student
2.	Status	Number	Total number classes attended by particular Student
3.	Semester	Text	In which Semester Student is Studying
4.	Subject	Text	The Subject Wise Attendance Is maintained
5.	Month	Text	The Month Wise Attendance is maintained where total working days in month=20

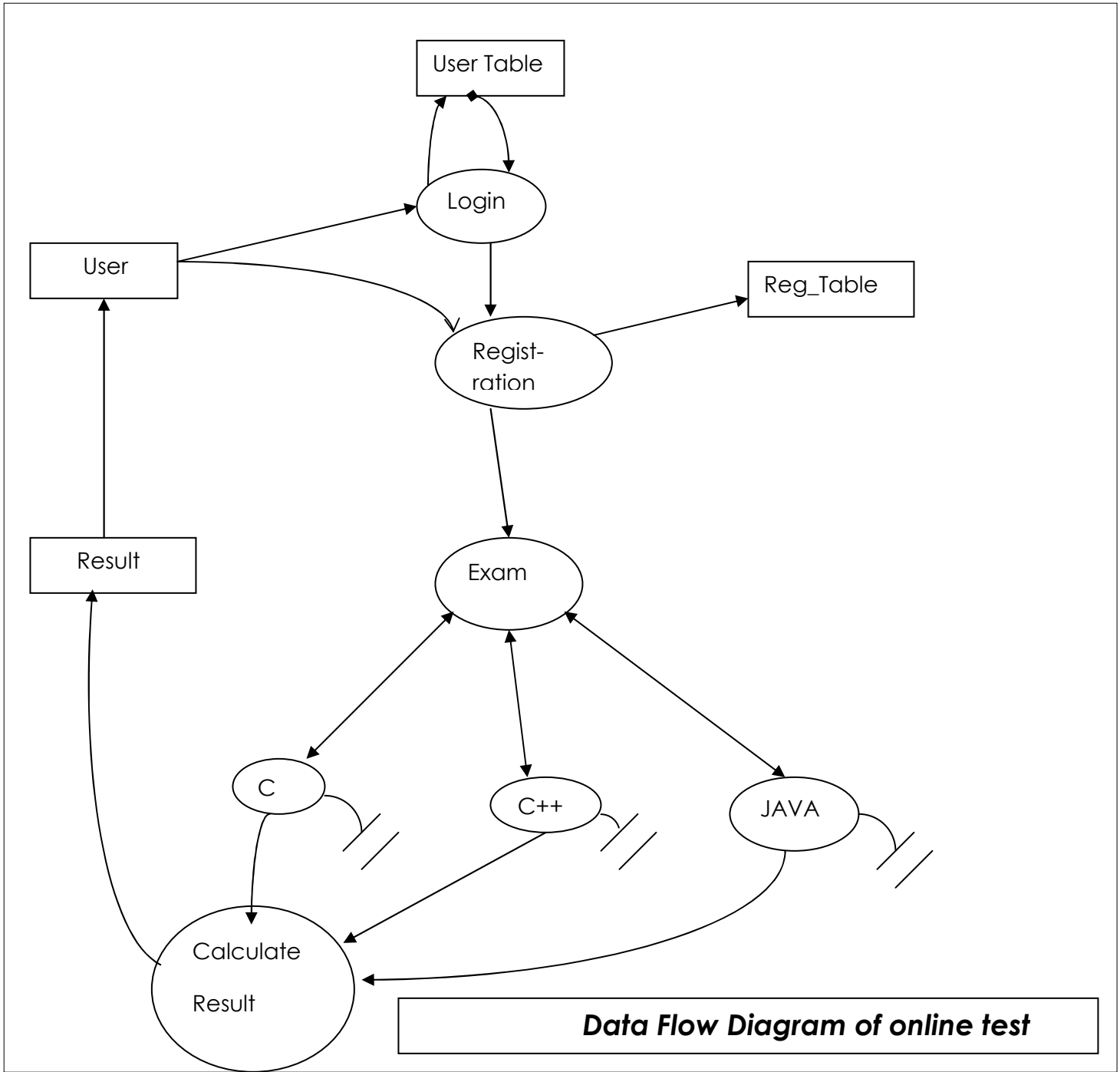
Subject Table:

S.No.	Field name	Data Type	Description
1.	Code	Number	Subject code a unique key
2.	Subject Name	Text	Name of Subjects in all semester
3.	Semester	Text	In which Semester student is studying

Student Table:

S.No.	Field name	Data Type	Description
1.	Student ID	Number	This is the roll no of the student
2.	Student Name	Text	This is the name of student
3.	Course	Text	This is the course in which the students are studying .By default course is MCA
4.	Semester	Text	This is the semester in which Students are Studying. By default Semester is IV sem

Data Flow Diagram (DFD)

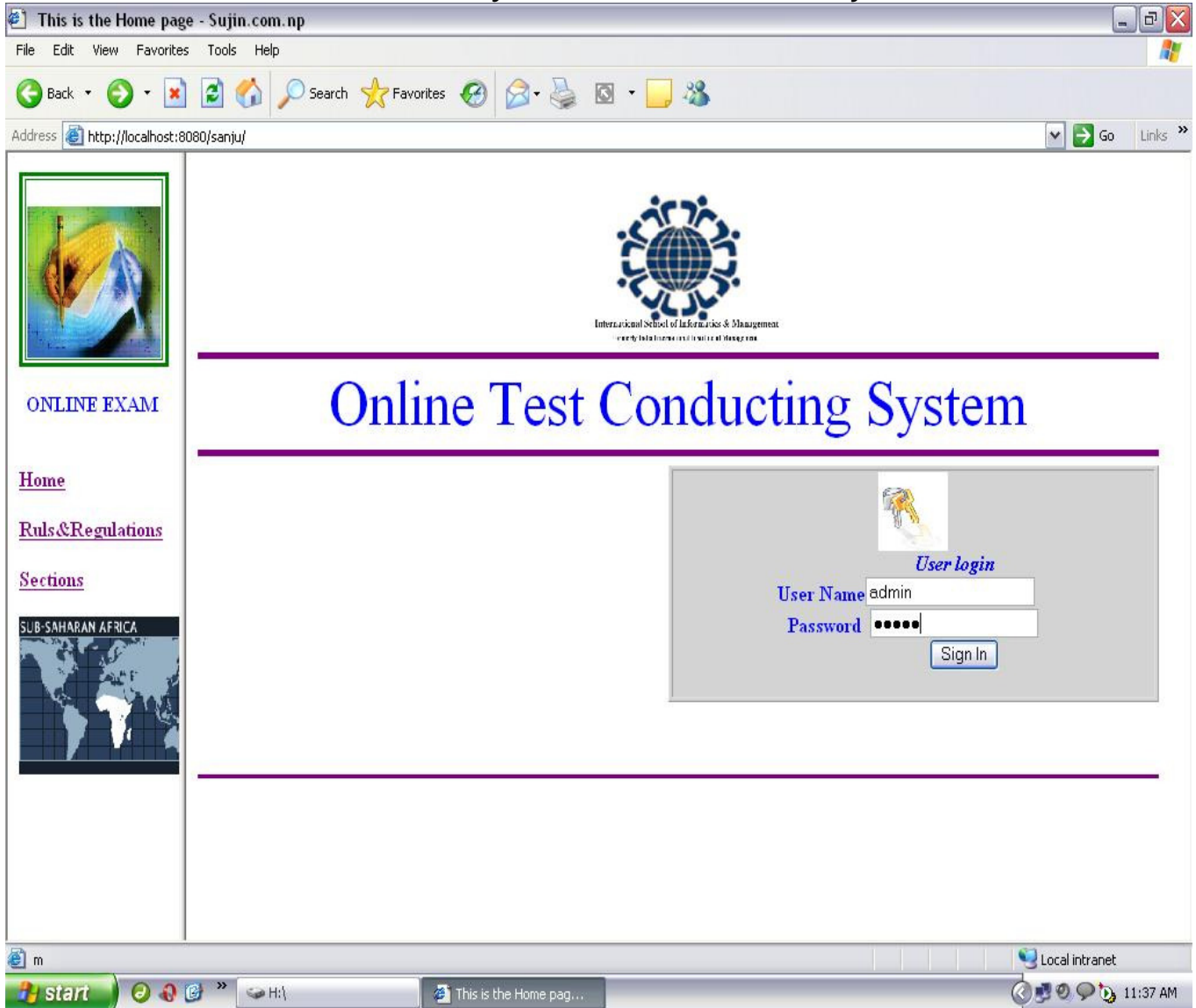


ER Diagram

Screen Shots

1. Login Form

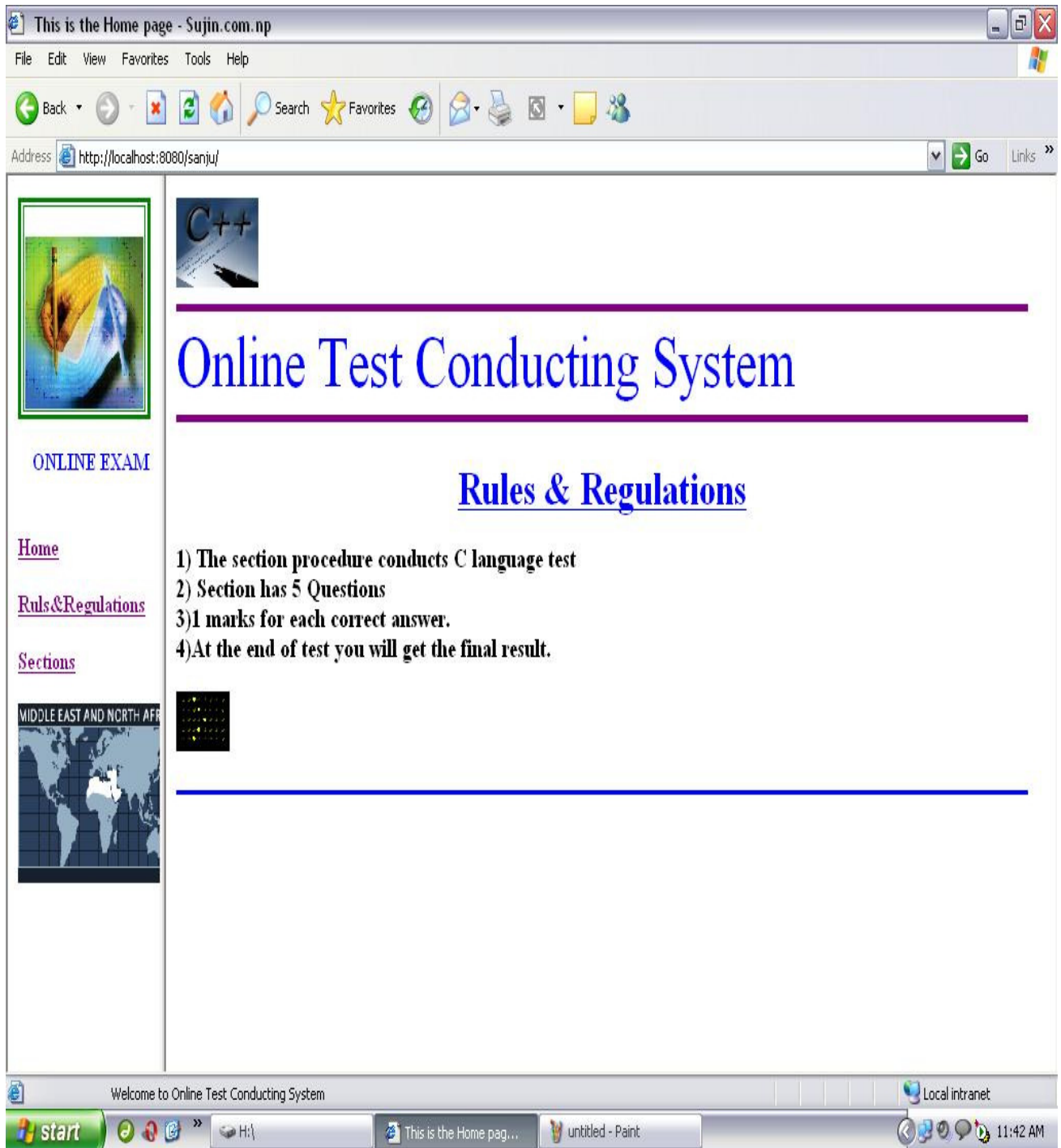
1. This login Form is made For Security purpose. So only Authenticated User only Access in to the Project.



The screenshot displays a web browser window with the following elements:

- Browser Title Bar:** "This is the Home page - Sujin.com.np"
- Address Bar:** "http://localhost:8080/sanju/"
- Page Header:** A logo for "International School of Informatics & Management" featuring a globe with human figures, and the text "International School of Informatics & Management" and "www.international-school-of-informatics.com".
- Main Content:** The title "Online Test Conducting System" is centered in a large blue font. Below it is a login form titled "User login" with a key icon. The form includes:
 - User Name:** A text input field containing "admin".
 - Password:** A text input field with masked characters "•••••".
 - Sign In:** A blue button.
- Left Sidebar:** Contains a navigation menu with links: "ONLINE EXAM", "Home", "Ruls & Regulations", and "Sections". Below the menu is a section titled "SUB-SAHARAN AFRICA" with a world map highlighting the region.
- Taskbar:** Shows the Windows Start button, a taskbar with the current page, and system tray icons including the clock showing "11:37 AM" and "Local intranet".

2. Rules and regulations





The screenshot shows a web browser window with the title "This is the Home page - Sujin.com.np". The address bar shows "http://localhost:8080/sanju/". The main content area features a large blue heading "Online Test Conducting System" and a sub-heading "Rules & Regulations". A list of four rules is displayed, followed by a world map graphic. The browser's taskbar at the bottom shows the system tray with the time "11:42 AM" and the text "Local intranet".

This is the Home page - Sujin.com.np

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Links


Address http://localhost:8080/sanju/ Go Links »



Online Test Conducting System

Rules & Regulations

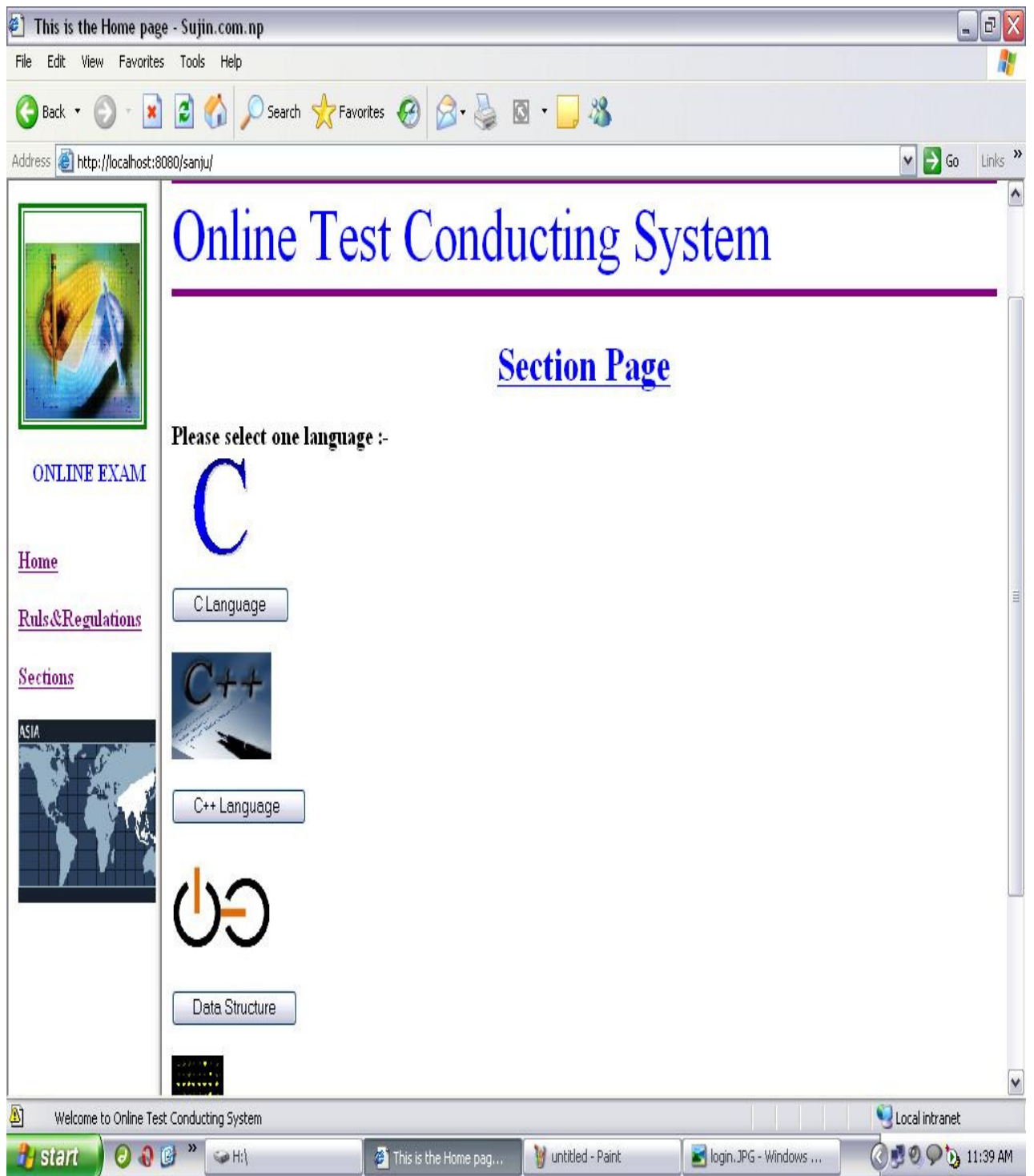
- 1) The section procedure conducts C language test
- 2) Section has 5 Questions
- 3) 1 marks for each correct answer.
- 4) At the end of test you will get the final result.



Welcome to Online Test Conducting System

start H:\ This is the Home pag... untitled - Paint Local intranet 11:42 AM

3. Section page




4. Question page

This is the Home page - Sujin.com.np

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Go Links

Address http://localhost:8080/sanju/ Go Links




[ONLINE EXAM](#)

[Home](#)

[Ruls&Regulations](#)

[Sections](#)

ASIA



In tree construction which is the suitable efficient data structure?

Array Linked_list Stack Queue

Welcome to Online Test Conducting System Local intranet

start H:\ This is the Home pag... sections.JPG - Paint 11:40 AM

5 Result page

The screenshot shows a web browser window with the title "This is the Home page - Sujin.com.np". The address bar contains the URL "http://127.0.0.1:8080/sanju/". The browser's toolbar includes buttons for Back, Forward, Stop, Home, Search, Favorites, and other navigation functions. The main content area of the browser displays the text "your result is=5" in a large, black, serif font. On the left side of the page, there is a sidebar with a green-bordered image of a boat on water, followed by the text "ONLINE EXAM" in blue. Below this are several underlined links: "Home", "Ruls&Regulations", and "Sections". At the bottom of the sidebar, there is a small map of the Middle East and North Africa with the text "MIDDLE EAST AND NORTH AFR" above it. The Windows taskbar at the bottom shows the Start button, a "New Folder" icon, a "Project Report1 - Mic..." icon, and the active browser window "This is the Home pag...". The system clock shows the time as 12:04 PM.

Conclusion

The On line test System is developed using Java and sql fully meets the objectives of the system for which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem. It was intended to solve as requirement specification.

Bibliography

1. Java Server programming Ivan Bayross

Future Scope

Scope of this project is very broad in terms of other manually taking exams.

Few of them are:-

- This can be used in educational institutions as well as in corporate world.
- Can be used anywhere any time as it is a web based application(user location doesn't matter).
- No restriction that examiner has to be present when the candidate takes the test.