# [**PLACEMENT ASSESSMENT PORTAL**](https://github.com/parthi18/placement-Assessment-Portal)

# **1. INTRODUCTION**

**1.1 OVERVIEW OF THE PROJECT**

This project is built to enhance the student’s assessment and train them for their placements. The system provides an initial test that is called a mandatory test to all students of various departments during their beginner stage. Based upon the outcome, the system will generate an individual student report, where each and every student data will be analysed and their benchmarks will be highlighted. Furthermore, test levels will be generated based upon their previous performance and questions will be randomly distributed for each student based upon their performance. The student can attempt the test multiple times to improve his/ her placement skills. The attempts made by the students and related scores will be updated to the respective faculty members and to the students.

# **1.2 OBJECTIVES OF THE PROJECT**

The objectives of the project is to-

* The project [placement-Assessment-Portal](https://github.com/parthi18/placement-Assessment-Portal) was developed for our college.
* The main advantage of using this application is to increase the placement skills of the students. It manages all the information about placement.
* This Project is totally built for placement examination.
* The purpose of the project is to build an application program to reduce the manual work for managing the placements.

# **1.3 THE NEED FOR A PROJECT**

The Existing Placement Online Assessment Training will not provide the analysis report of the student in an individual basis. Successful training program are well aware of the assessments that are vital part of improving aptitude skills, knowledge and their courage to face the interview. But there is no provision to train the students where they want to be trained in the specific field.

* The system provides an initial test that is called a mandatory test to all students of various departments during their beginner stage.
* The student can attempt the test multiple times to improve his/ her placement skills.

**1.4 OVERVIEW OF TECHNOLOGIES**

Main technologies associated with

* Web programming technologies(JS,JSP,HTML,CSS,JQUERY, BOOTSTRAP)
* Oracle(database)

**1.5 SCOPE OF THE PROJECT**

Main actors of this system

* + - Student
    - Admin(faculty)

Main use case associated:

1. **Student**

* Attend the test

1. **Admin**

* Uploads the questions for the students
* Managing the students details
* Bench mark

**2. FEASIBILITY STUDY2.1 FINANCIAL FEASIBILITY**

            Being a web application “Placement-Assessment-Portal” will have an associated hosting cost. Since the system doesn’t consist of any multimedia data transfer, bandwidth required for the operation of this application is very low.

             The system will follow the freeware software standards. No cost will be charged from the potential customers .Bug fixes will have an associated cost. Beside the associated cost, there will be many benefits for the customers.

# **2.2 TECHNICAL FEASIBILITY**

          Project “Placement-Assessment-Portal” is a complete web based application. The main technologies and tools that are associated with “Placement-Assessment-Portal” with are

# SPRING BOOTSTRAP

# JSP

# ORACLE

# ECLIPSE IDE

Each of the technologies are freely available and the skills required are manageable. Time limitations of the product development and the ease of implementing using these technologies are synchronizes.

Initially the web will be hosted in a free web hosting space, but for later implementing it will be hosted in a paid web hosting space with a sufficient bandwidth.

**2.3 RESOURCE AND TIME FEASIBILITY:**

Resource feasibility

Resource that are required for the “Placement-Assessment-Portal” project includes,

* Programming device (laptop)
* Hosting space (freely available)
* Programming tools (freely available)
* Programming individuals

So it’s clear that the project Placement-Assessment-Portal has the requires

Resource feasibility

**2.4 RISK FEASIBILITY**

Risk feasibility can be discussed under several contexts.

Risk associated with size.

**Estimated size of the product in line of codes:**

             Being a web application with many number of stakeholders. PLACEMENT-ASSESSMENT-PORTAL will contain significant amount of code lines. As the system doesn’t contain any multimedia aspect, the file sizes and the complete project size will not exceed 200 MB.

**Estimated size of the product in number of programs:**

Though the application supports many students and lecturers, it will be constructed as a single web application with a single login page than having any number of sites for different users. Depending upon the access rights the contents will be shown or hidden.

**Size of database created or used by the product:**

Database size will not exceed the values supported by Oracle (65526 entries per table). Number of relations and entities are minimized by using best practices of normalization theories.

**Users of the product:**

**Student**

Effect of this product on company revenue:

The project can be implemented either as an individual system, or can be integrated to an existing system such as university Moodle system.

Customer related risks:

“PLACEMENT-ASSESSMENT-PORTAL “is a general type of product (not designed just for a single college). Before implementing the system in an educational institute, there will be some basic modifications required.

Are compilers or code generators available and appropriate for the product to be built?

JSP will be used as the main scripting language. All the libraries and interpreters will be freely available.

Are testing tools available and appropriate for the product to be built?

JUNIT is the main testing tool that will be used. JUNIT is freely available tool that supports automated testing.

Does the environment make use of a database or repository?

This is a database oriented system that will use Oracle.

 Are all the software tools integrated with one another?

  Main deliverables will be packaged under a single project. All the lecturers and students will have a single login page.

Social/Legal Feasibility

The project uses freely available development tools and provides the system as an open source system. Only the maintenance cost will be charged from potential customers.

JSP Software libraries that are used in this system are free open source libraries. Since this new system eliminates the effort to search pattern for each company individually, it will have a great impact in a resume system.

|  |  |
| --- | --- |
|  | Question DB |

|  |  |
| --- | --- |
|  | Report DB |

|  |  |
| --- | --- |
|  | Student DB |

**ADMIN**

Admin/Faculty

Prepares

Questions and Answers

View the

Student Report

View the

Students

Details

View the Faculty Details

Faculty DB

**STUDENT**

Select Categories

Student

Report DB

Attends

Gen\_Test

Attends

Retest

Continue

To 5

Levels

View the

Report

Mark DB