**PLACEMENT PATTERN EVALUATION**

**1. INTRODUCTION:**

**1.1 OVERVIEW OF THE PROJECT**

The project entitled as “Placement pattern evaluation” is used to evaluate the pattern for placement. Placement pattern evaluation is an effective way to evaluate the patterns for various companies involved in the placement. The project also evaluates the different questions involved in each pattern. The questions are evaluated for all the academic years respectively. The pattern is finally sent as an email to the respective students involved in the placement scenario. This project thus helps the students to effectively prepare for an interview.

1.2 OBJECTIVES OF THE PROJECT

The objectives of the project is to-

* Develop a database of patterns for each company
* Add related questions for each pattern
* Prioritize the most frequently asked question
* Provide the ability for the teachers to view the pattern and teach the students accordingly
* Automate the process by sending the patterns to respective students accordingly.
* Mock exam and tests can be done based on the pattern.

1.3 THE NEED FOR THE PROJECT

Placement is a difficult task for the students when placement happens in continues days. The “PLACEMENT PATTERN EVALUATION” makes the process simple by reducing the time involved in searching pattern and questions for each company. The student could focus only on the mandatory questions thus helping the students to get placed easily.

The project also provides solutions for the students by automatically sending the patterns of the various companies to the respective students.

1.4 OVERVIEW OF EXISTING SYSTEM AND TECHNOLOGIES

In the existing system, the placement company names and the details of the student will be available. The student gathers the patterns and the questions by referring to different website. The time taken for analyzing the patterns requires more time. Once the pattern is evaluated by the student the students starts referring to the related questions. The time consumption for this process is comparatively more.

In the proposed system, the pattern of different companies and the related questions are specified. This reduces the time for the students, instead of searching the patterns in different websites.

Main technologies associated with the project

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

1.5 SCOPE OF THE PROJECT

Main actors of this system

* Students
* Lecturers
* Admin

Main use cases associated:

1. Admin:

* Adds the pattern for different companies.
* Adds related questions to each pattern
* The patterns and questions are sent to the respective students through the means of email.

1. Lectures

* Views the patterns provided by the admin
* Trains the students for placement based on the pattern

1. Students

* Views the pattern of different companies and prepares accordingly

2. Feasibility Study

2.1 Financial Feasibility

Being a web application “PLACEMENT PATTERN EVALUATION” 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. Especially the extra effort associated with placements will be significantly reduced while the effort to search patterns in different web browsers will be eliminated, since the software displays the patterns of various companies involved in the placement.

2.2 Technical Feasibility

Project “PLACEMENT PATTERN EVALUATION” is a complete web based application. The main technologies and tools that are associated with the project are

* HTML
* CSS
* JSP
* MySQL
* JS
* Eclipse

Each of the technologies are freely available and the technical skills required are manageable. Time limitations of the project development and the ease of implementing using these technologies are synchronized. The website are hosted in a free web hosting space, but for later implementations will be hosted in a paid web hosting space with a sufficient bandwidth.

2.3 Resource and Time feasibility

Resource feasibility

Resources that are required for the “PLACEMENT PATTERN EVALUATION” project includes,

Programming device(Laptop)

Hosting device(freely available)

Programming tools(freely available)

Programming individuals

So it’s clear that the project has the required resource feasibility.

2.4 Risk Feasibility

Risk Feasibility can be discussed under several contexts.

Risk associated with size

Estimated size of the product in lines of codes:

Being a web application with many numbers of stakeholders, the project 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 theproduct:

Database size will not exceed the values supported by MySQL (65526 entries per table). Number of relations and entities are minimized byusing best practices of normalizationtheories.

Users of the product:

* Lecturers
* Teachingassistants
* Students

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. Since it automates some key features associated in college placement process, the users can increase therecruitments.

Customer related risks:

“PLACEMENT PATTERN EVALUATION “ 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 MySQL.

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 placement system.

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SYSTEM STUDY

LEVEL-1(DFD)

ADMIN/FACULTY

ADAD PROFILE DETAIL

PATTERN DETAIL

QUESTION DETAIL

STAFF DETAIL

TEST DETAIL

LEVEL -2 (DFD)

STUDENT

TEST DETAIL

REPORT DETAIL