**SCRIPT EVALUATION ASSISTANT**

**A PROJECT REPORT**

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***in partial fulfilment for the award of the degree***

***of***

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE ENGINEERING**



Under esteemed guidance of

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**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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**BONAFIDE CERTIFICATE**

Certified that this project report “Script Evaluation Assistant” is the bonafide work of N. Ajay Raj (316126510034), M. Raghu (316126510031), N. Amrutha Lakshmi (316126510032) and M. Sushma (316126510027) who carried out the project work under my supervision.

**DECLARATION**

This is to certify that the project work entitled “**SCRIPT EVALUATION ASSISTANT**” is a bonafide work carried out by **N.AJAY RAJ, M.RAGHU, N.AMRUTHA LAKSHMI, M.SUSHMA** as a part of **B.TECH** third year 1st semester of **Computer Science Engineering** of ANITS, Visakhapatnam during the year 2018-19.

We, **N.AJAY RAJ, M.RAGHU, N.AMRUTHA LAKSHMI, M.SUSHMA** of third year B.Tech., in the department of Computer Science Engineering from ANITS, Visakhapatnam, hereby declare that the project work entitled  **SCRIPT EVALUATION ASSISTANT** is carried out by us and submitted in partial fulfilment of the requirements for the award of **Bachelor of Technology in Computer Science Engineering,** under Anil Neerukonda Institute of Technology & Sciences during the academic year 2018-19 and has not been submitted to any other university for the award of any kind of degree.

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**ABSTRACT**

SCRIPT EVALUATION ASSISTANT is a software system, which allows faculty to collect, evaluate and manage grades. The main purpose of this study was to provide a runtime environment for instructors and faculty to execute and evaluate the students performance and store them in database for later use . The tools used are Python programming, and Tkinter for front end purpose.

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1. **INTRODUCTION**

**1.1 PROBLEM STATEMENT**

**1.2 CONTRIBUTION**

The main purpose of project is to award marks for students assignment submission according to their date of submission. It makes the work uncomplicated for faculty which leads to decrease their workload.

3. DOMAIN EXPLANATION

**3.1 SYSTEM INTERFACE**:

Application would be a self contained system.It will not access the data of any other application that have accessed to its data.

3.2 USER INTERFACE:

Application would be accsessed by a browser interface.The interface would be viewed best using 1366\*768 and 1440\*900 pixels resolution setting.The software would be fully compatible with tkinter.

3.3 HARDWRE INTERFACE:

Server: Faculty laptop ,4GB RAM ,core i3 and above

Client: PC with their run time,2GB RAM,Network Interface Card

3.4 SOFTWARE INTERFACE:

Python 3.6 and above ,mysql 8.0 and above, Google Drive Client

3.5 COMMUNICATION INTERFACE:

The system should be accessed over LAN or WAN .For clients to access the application server.Network should be running on TCP/IP protocol.

3.6 OPERATIONS:

Client Side: Students will be able to upload program scripts .

Server Side: Run programs ,evaluate and generate spread sheets.

4. RELATIONS

Student(reg\_id:char,

name:varchar,

dob:date,

email\_id:varchar,

dir:varchar,

marks:integer

);

Script(script\_id:char,script\_name:varchar,script\_desc:varchar,script\_input:varchar,co :varchar);

Grade(reg\_id:char,script\_id:char,grade:integer,date\_of\_grading:date);

Courseoutcomes(co:varchar,co\_desc:varchar);

**5. INTEGRITY CONSTRAINTS AND REFERENTIAL INTEGRITY CONSTRAINTS**

Constraints enforce limits to the data or type of data that can be inserted/updated/deleted from a table. The whole purpose of constraints is to maintain the **data integrity**during an update/delete/insert into a table. In this tutorial we will learn several types of constraints that can be created in RDBMS.

## Types of constraints

* NOT NULL
* UNIQUE
* DEFAULT
* CHECK
* Key Constraints – PRIMARY KEY, FOREIGN KEY

#### NOT NULL:

NOT NULL constraint makes sure that a column does not hold NULL value. When we don’t provide value for a particular column while inserting a record into a table, it takes NULL value by default. By specifying NULL constraint, we can be sure that a particular column(s) cannot have NULL values.

#### UNIQUE:

UNIQUE Constraint enforces a column or set of columns to have unique values. If a column has a unique constraint, it means that particular column cannot have duplicate values in a table.

#### DEFAULT:

The DEFAULT constraint provides a default value to a column when there is no value provided while inserting a record into a table.

#### CHECK:

This constraint is used for specifying range of values for a particular column of a table. When this constraint is being set on a column, it ensures that the specified column must have the value falling in the specified range.

## Key constraints:

#### PRIMARY KEY:

Primary key uniquely identifies each record in a table. It must have unique values and cannot contain nulls. In the below example the ROLL\_NO field is marked as primary key, that means the ROLL\_NO field cannot have duplicate and null values.

#### FOREIGN KEY:

Foreign keys are the columns of a table that points to the primary key of another table. They act as a cross-reference between tables.

**6. TABLES DESCRIPTION**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Create table Student ( | | | | |  | | |
|  | | | | | reg\_id char(12) primary key, | | |
|  | | | | | name varchar(50) not null, | | |
|  | | | | | dob date not null, | | |
|  | | | | | email\_id varchar(30) not null, | | |
|  | | | | | dir varchar(50) not null, | | |
|  | | | | | marks integer not null | | |
|  | | | | | ); | | |
| create table Script ( | | | |  | | | |
|  | | | | script\_id char(4) primary key, | | | |
|  | | | | script\_name varchar(20) unique not null, | | | |
|  | | | | script\_desc varchar(100), | | | |
|  | | | | script\_input varchar(100), | | | |
|  | | | | co varchar(4) not null | | | |
|  | | | | ); | | | |
|  | | | |  | | | |
| create table Grade ( | |  | | | | | |
|  | | reg\_id char(12) not null, | | | |  | |
|  | | script\_id char(4) not null, | | | |  | |
|  | | grade integer not null, | | | |  | |
|  | | date\_of\_grading date not null | | | |  | |
|  | | ); | | | |  | |
|  |  | |  | | | | |
|  | create table CourseOutcomes ( | |  | | | | |
|  |  | | co varchar(4) primary key, | | | |  |
|  |  | | co\_desc varchar(30) not null | | | |  |
|  |  | | ); | | | |  |
|  |  | |  | | | |  |
|  |  | |  | | | |  |

**7. SCHEMA DIAGRAM**