SCHOOL OF COMPUTATIONAL SCIENCES

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Student's Internal Assessment Portal

Synopsis

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PROBLEM STATEMENT:

- Assignments and Exams are required part of any academic organizations.

- Online Assignment System can be implemented by developing a website like Google Classroom. By Using of this website students can submit their assignments and also students are able to give exams.

OBJECTIVE AND SCOPE:

- Online assignment submission system is one of the requirements of any organization.

- The primary goal of this project is to provide a facility to the students which may reduce the paper work of any academic organization.

- This software provides facility to both students and teachers. Teachers are able to give assignments to students and students are able to submit the assignment online. There is another feature like students are able give internal exams in online mode.

- For using this software both teachers and students have to register themselves.

Technology & Methodology

Modules:

There are following modules:

Module 1:
- **Login Page.**
    - Username and Password
    - New User Registration
    - Forgot Password

Module 2:
- User Information page

Module 3:
- **Current courses of Institute**
    - Department
    - Courses
    - Year
    - Semester

Module 4:
- **Students Class Information**
    - Student Name
    - Class
    - Roll Number
    - E-mail
    - Phone Number

Module 5:
- **Add Assignment Page**
- **Assignment Uploading Page**

Module 6:
- **Uploading and Downloading Notes Page**

Module 7:
- **Exam Page**
- **Result Page**

Module 8:
- **Student Feedback Page**

SYSTEM REQUIREMENTS
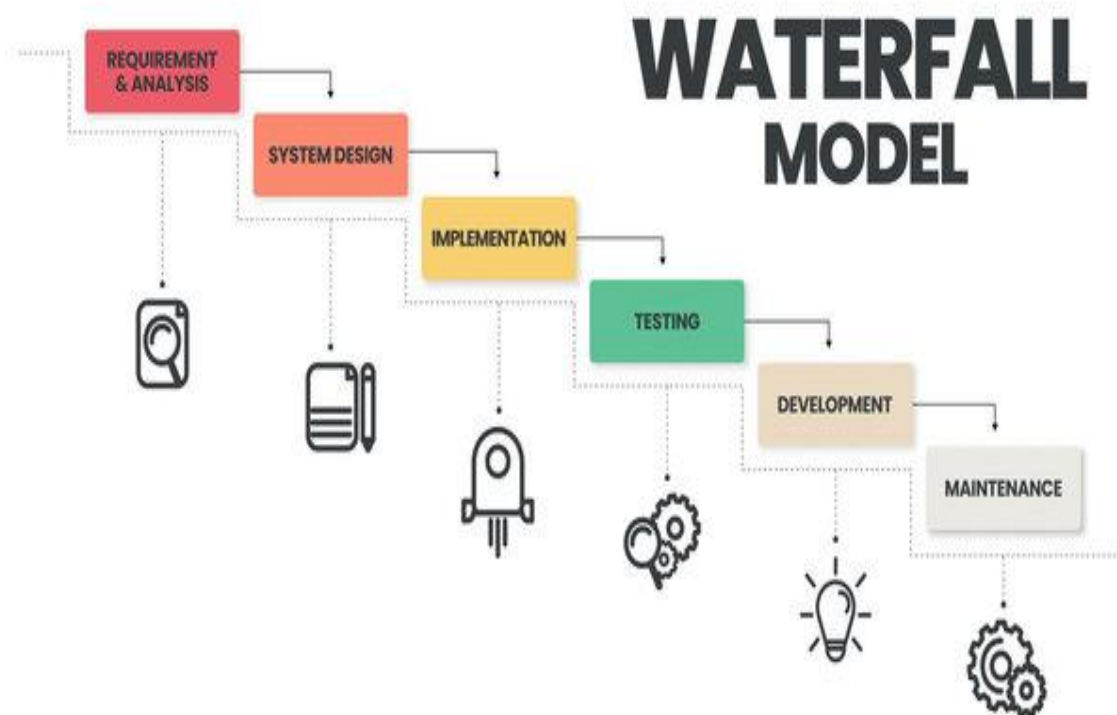
SOFTWARE SPECIFICATION

- ➢ WINDOWS 10 or 11
- ➢ VISUAL STUDIO CODE
- ➢ Python (Django Framework)
- ➢ HTML, CSS, Bootstrap, JavaScript
- ➢ MYSQL
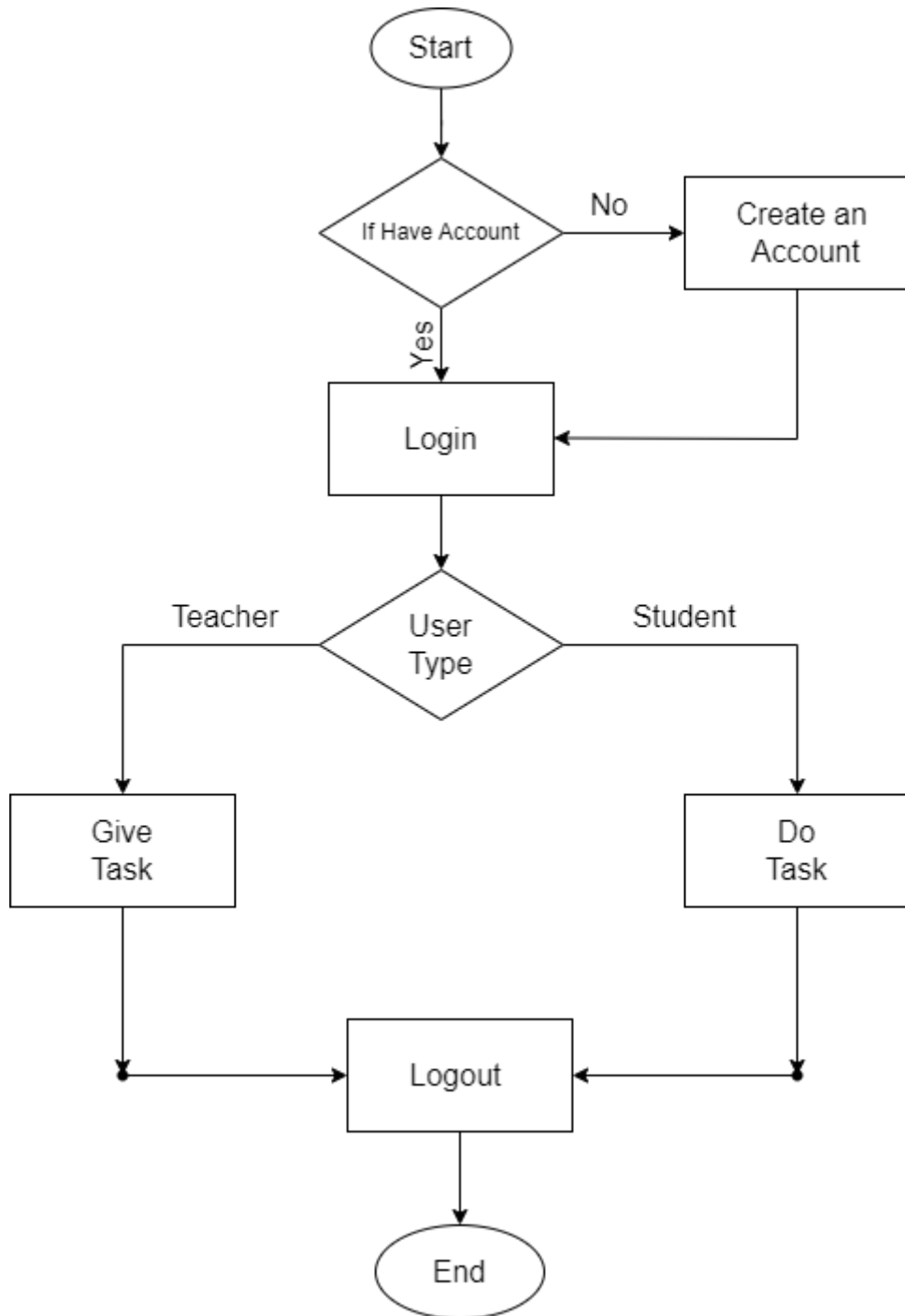
HARDWARE SPECIFICATION

- ➢ INTEL® CORE™ i5, 3.20 GHZ
- ➢ 4 GB RAM
- ➢ LAN CARD
- ➢ 256 GB STORAGE SPACE

Model: -

 The waterfall model is a classical model used in the system development life cycle to create a system with a linear and sequential approach. It is termed a waterfall because the model develops systematically from one phase to another in a downward fashion. The waterfall approach does not define the process to go back to the previous phase to handle changes in requirements. The waterfall approach is the earliest approach that was used for software development.

Flowchart Diagram:

Advantages:

☐ Time-saving: One of the main advantages of student assessment software is that it can save teachers a significant amount of time. Automated grading, data collection, and analysis can all be done quickly and efficiently with software, which allows teachers to focus on other important aspects of teaching.

☐ Consistency: Student assessment software can ensure that assessments are consistent and fair for all students. Automated grading eliminates subjective biases, and software can ensure that each student is assessed using the same criteria.

☐ Instant feedback: Student assessment software can provide students with instant feedback on their performance, which can be valuable for improving learning outcomes. This feedback can be in the form of scores, comments, or suggestions for improvement.

☐ Accessibility: Student assessment software can make assessments more accessible to students with disabilities. For example, software can convert text to speech or provide other accommodations to make assessments more accessible to students who may have difficulty reading or writing.

☐ Cost-effective: Although there may be initial costs associated with purchasing and implementing student assessment software, over time it can be more cost-effective than traditional paper-based assessments. It can save money on printing and grading costs, and the data analysis tools can inform decisions that improve overall education outcomes.

Disadvantages:

☐ Cheating and plagiarism: The convenience of an internal assessment portal can also provide opportunities for cheating and plagiarism, as students may be tempted to share answers or copy work. In some cases, it can be difficult to verity the authenticity of work submitted through a portal.

☐ Technical issues: Student assessment software relies on technology, which can be subject to technical issues such as bugs, crashes, and system failures. These technical issues can disrupt the assessment process and cause delays.

☐ Security concerns: Student assessment software may be subject to security concerns, such as hacking or data breaches. Sensitive student information, including grades and personal information, could be compromised.

☐ Limited Interaction: While an internal assessment portal can provide students with convenient access to course materials, it may also limit interaction and collaboration with instructors and peers. This can be a disadvantage for students who thrive on face-to-face interaction and discussion.

☐ Equity: Some students may not have access to the technology needed to use student assessment software effectively. This could create an inequity in the assessment process, as some students may be at a disadvantage.

☐ Increased Workload: An internal assessment portal can increase the workload for instructors and administrative staff who are responsible for monitoring the portal, responding to queries, and providing feedback. This can take up valuable time that could be spent on other tasks.

Contribution:

One of the main benefits of student assessment software is that it can make the assessment process more efficient. With software, assessments can be automated, which reduces the time it takes for educators to grade papers, analyze results, and provide feedback. This saves valuable time for educators and enables them to focus on other important aspects of teaching. It can improve accuracy of assessment. student assessment software can be a valuable tool for educators, students, and parents alike. It can improve the efficiency and accuracy of assessments, personalize learning, increase accessibility, and provide valuable data analysis tools to inform educational practices.

References:

➤ https://www.python.org/doc/

➤ https://openai.com/

➤ https://docs.djangoproject.com/en/4.1/

➤ https://html.spec.whatwg.org/multipage/

➤ https://getbootstrap.com/docs/5.3/

➤ https://developer.mozilla.org/en-US/docs/Web/JavaScript