SOAP

The standard protocol HTTP makes it easier for SOAP model to tunnel across firewalls, proxies without any modifications to the SOAP protocol and connection between different channels of the system. SOAP requires less plumbing code for services design, (i.e., transactions, security, coordination, addressing, trust, etc.) hence the system it won’t just support complex operations, which require conversational state and contextual information to be maintained. With the SOAP approach, developers need not worry about writing this plumbing code into the application layer themselves.

The system needs consistency and integrity in processing information, SOAP has a large number of supporting standards for security, reliability, transactions. This will be applicable with LDAP system used by the department of Computer Science.

Security

SOAP will provides authentication with the HTTPS that uses an encrypted transport protocol underneath to handle all communication of sensitive data.

Django web framework.

Django's object-relational mapper provides the core of the framework, currently supports MySQL. Django generates production-ready CRUD interfaces from the ORM. The automatic creation of database tables and database abstraction layer from Pythonic model definition is really quite elegant and probably Django's most distinctive feature.

Database (django )There embed SQL in an unobtrusive way within your model's methods if you have to, e.g. for complex queries with joins over multiple tables. Thus, the mapper can handle the 90% of the cases that are simple, yet will step aside elegantly where it should.

* Inserting and operating marks on web interface.

Design Patterns

* Factory

The system different interfaces, factory object helps provide necessary information about the type of object the client needs.

Libraries

* MuPDF is also small, fast, and yet complete. It supports PDF 1.7 with transparency, encryption, hyperlinks, annotations, searching and more. It also reads XPS and OpenXPS documents. MuPDF is written modularly, so features can be added on by integrators if they so desire.
* CSV File Reading and Writing(version 2.3) format and python imports and exports format for spreadsheets and databases of the students marksheet.
* Jquer y makes  HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers

HTML5

* Html5 makes it possible design rich content without the need for additional plugins. Limiting data of the system and enhancing performance on the web interface.