

Assignment NO.03.

Aim:-

creating an application in salesforce.com using apex programming language.

Theory:

what is apex?

Apex is a programming language developed by salesforce.com as per official definition Apex is a strongly typed object oriented programming language. that allows developer to execute the flow and transaction control statements on salesforce.com API. Apex includes performance edition unlimited edition, enterprise, edition and developers edition

Features of Apex as a language:

- 1) Integrated
- 2) java like syntax and easy to use.
- 3) strongly integrated with data.
- 4) strongly typed.
- 5) multitenant environment
- 6) upgrades automatically.
- 7) easy testing.

when should developer choose apex?

Apex should be used when we are not able to implement complex business functionality using pre-built and existing out of box functionalities.

Apex Application:

- 1) email services for email blast / email setup.
- 2) perform complex validation over multiple objects.
- 3) complex business processes.
- 4) custom transaction logic.
- 5) perform some logic when a record is modified & the related objects record when is some event which has caused the trigger to fire.

working Structure of Apex:

Flow of actions:

There are two sequence of actions when the developer save the code and when an end user performs some action which invokes apex code.

Developer Actions:

when a developer writes and solve apex code to Platform, the Platform application service first compile the code into set of instructions that can be understood by apex runtime interpreter and then save those instructions as metadata.

End user Action:

When an end-user action triggers the execution of apex by clicking a button / accessing a visualization page, the platform application server retrieves the compiled instruction from data and sends them through the runtime interpreter before returning the result.

The end user observes no differences in execution time as compared to standard application platform request.

Understanding the apex syntax:

Apex code typically contains many things that we might be familiar with from other programming language.

variable declaration:

You must declare every variable with data type.

SQL query:

It is used to fetch data from Salesforce.

Conclusion:-

Thus, we studied about apex programming language for development.