**SOFTWARE ARCHITECTURE**

MVC (MODEL-VIEW-CONTROLLER) is a 3-tier software architecture pattern for implementing user interfaces on computer. It divides a given software application into three interconnected parts, so as to separate internal representations of information from the ways that information is presented to or accepted from the user.

ADVANTAGES OF MVC

1. Faster development process.
2. Ability to provide multiple views.
3. Supports for asynchronous technique- helps developer to develop an application that loads faster.
4. Modification doesn’t affect the entire model.

SENDS INPUT EVENTS

MODIFIES

MODIFIES

UPDATES

CONTROLLER

USER INPUT

VIEW(DISPLAYING)

INTERFACE

MODEL (APPLICATION)

DATA AND LOGIC

COMPONENTS OF MVC

1. MODEL
2. VIEW
3. CONTROLLER
4. MODEL: Model is responsible for managing the data of the application. It responds to the request from the view and also follows the instruction from the controller.
5. VIEW: View presents the data in a particular format, triggered by controller decision to present the data. They are script based template system like JSP, ASP, PHP etc.
6. CONTROLLER: Controller is responsible for responding for the user input and performs the interaction with the data model objects. The controller receives the input, it validates the input and then performs the business operation that modifies the state of the data model.