Sakshi Pokane (TE-A-42)

* Assignment No :- 9 *

* Title :- Design & develop any web application using AngularJS.

* Objective :

1) Understand the design of single - page application how AngularJS facilities their development.
2) property Separate the modul view & controller layer of your application & implement them using AngularJS.
3) Master AngularJS expression filters & scopes.
4) Build Angular forms.
5) Elegantly implement Ajax in your AngularJS application.
6) write AngularJS direction.

* problem Statement :

Create an application for bill payment Record using AngularJS.

* Outcomes :

Students can able to,

1) implement the effective client side implementation.
2) Solve the Complex problem of development using MVC framework.

* Software & Hardware requirement
Software, Eclipse IDE / Notepad.

* Theory :-
AngularJS is an opensource web application framework. It was initially created is 2009 by Misko Hevery & Adam Abrons.

- General Features.
1) AngularJS is a productive System that can make rich Internet Application.
2) AngularJS gives designer a choice to Compose Customer Side.
3) Application written in AngularJS are cross-program agreeable.

- Core features :-
1) Data authoritative
2) Scope
3) Controller
4) Services
5) filters
6) Templets

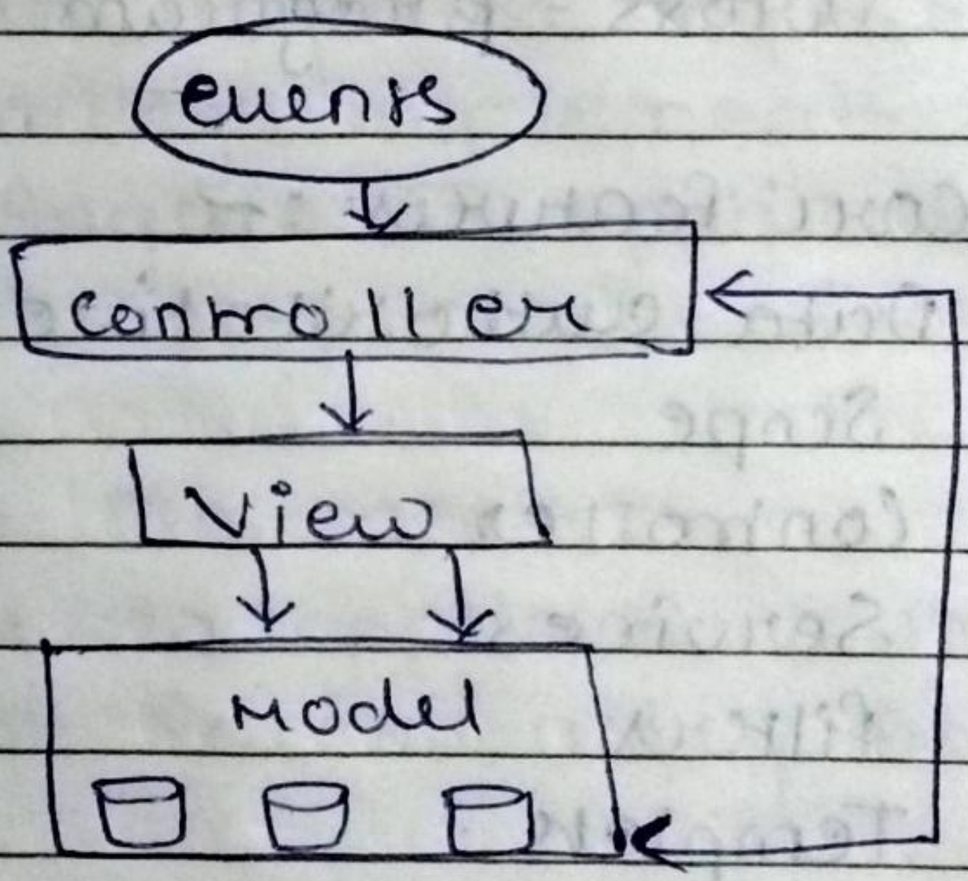
- Advantages of AngularJS
1) AngularJS code is unit Codes
3) AngularJS Wilization reliance infusion & makes wilization of partition of concerns

4) AngularJS gives reusable segments.

5) With AngularJS the engineers can accomplish greater usefulness with short code.

- Model View Controller
  1) Model
  2) View
  3) Controller

* MVC is mainstream since it application retional form the UI layer & backing detachment of concerns.



AngularJS is a MVC based structu
- Angular Application comprises of following three essential parts - ng-app - the directive define & links

an AngularJS application to HTML.

- ng-model - This directive binds the values of AngularJS application data of HTML input control.

- ng-bind - This directive binds the AngularJS application data to HTML tags.

* Conclusion :-

With the help of this assignment it is helpful to understand features of Angular MVC model Structure & it use in advanced web programming is studies.

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Assignment 9 : Create an application for Bill Payment Record using AngularJs.

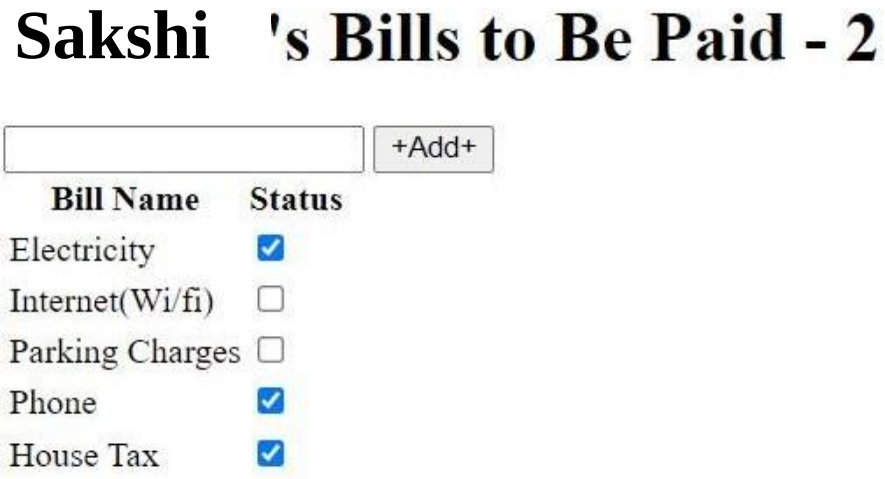
```
<!DOCTYPE html>
<html ng-app="billpayApp">
<head>
  <title>AngularJS First Application : Responding to User
   </title> <link href="bootstrap.css" rel="stylesheet" />
   <link href="bootstrap-theme.css" rel="stylesheet" /
   > <script src="angular.js"></script> <script>

     var dataModel = {
      customer: "Tintin",
      items:[{ bill:"Electricity", status:false},
            { bill:"Internet(Wi/fi)", status:false }, {
            bill:"Parking Charges", status:false }, {
            bill:"Phone", status:true},
            { bill:"House Tax", status:true}]
     };

     var billpayApp = angular.module("billpayApp", []);

     billpayApp.controller("billPayCtrl", function($scope){ /* first argument is name of Controller,
                                                  second is a function to be called to define
                                                  the functionality of controller*/

     $scope.billpay = dataModel // property billpay on $scope service object, and assign model to it
```

```
    $scope.dueBills = function() { // dueBills is the behaviour
    var counter = 0;
    angular.forEach($scope.billpay.items, function(item){

    if(!item.status) {counter++} // checks if status is false, and then increases counter by one
      });
      return counter;
    }

    $scope.redFlag = function(){
      return $scope.dueBills() < 2 ? "label-success" : "label-danger";
    }

    $scope.newBills = function(billName){
      $scope.billpay.items.push({ bill: billName, status: false});
                    // Adds new items to the model
            }
    });
  </script>

  </head>
<body ng-controller="billPayCtrl">
   <div class="page-header">
     <h1>{{billpay.customer}}'s Bills to Be Paid -
       <span class="label " ng-class="redFlag()" ng-hide="dueBills() == 0">
         <!-- ng-hide hides element if the expression within is true -->

         {{dueBills()}} <!-- Behaviour is called using Parentheses, it gets data from the scope -->

       </span></h1>
```

```
    </div>
    <div class="panel">
      <div class="input-group">
        <input class="form-control" ng-model="billName"/>
                              <!-- ng-model is used to create the specified property -->


                    <span class="input-group-btn">
          <button class="btn btn-danger"
           ng-click="newBills(billName)">+Add+</button>
                                        <!-- the directive ng-click executes the expression when click event
is triggered -->
                    </span>
      </div>
      <table class="table table-striped">

        <thead>
          <tr>
            <th>Bill Name</th>
            <th>Status</th>
          </tr>
        </thead>

        <tbody>
         <tr ng-repeat="item in billpay.items">
          <td>{{item.bill}}</td>
          <td><input type="checkbox" ng-model="item.status"/></td>

         </tr>
       </tbody>

      </table>
```

```
  </div>
</body>
</html>
```

OUTPUT:



Sakshi 's Bills to Be Paid -

Maintenance +Add+

Bill Name	Status
Electricity	☑
Internet(Wi/fi)	☑
Parking Charges	☑
Phone	☑
House Tax	☑
Maintenance	☑