***Project Proposal***

**System Architecture and design**

**M&V: Design your own Dress**

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1. **Introduction:**

The project M&V is an inspiration from my own experience. Being a girl I always wanted to dress my own cloths and also heard from most of the girls the same. This project would help a lot of their dreams come true. The technologies used are modern and are very user friendly.

This project implements MVC architecture. That is Model View Controller.

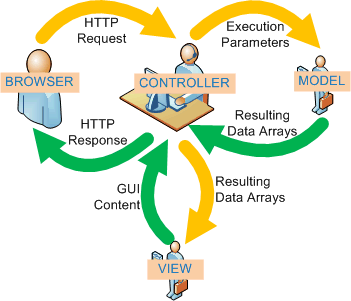


Fig 1: MVC architecture.

(Source: [code.tutsplus](http://code.tutsplus.com/tutorials/zend-framework-from-scratch-models-and-integrating-doctrine-orm--net-23654))

In the Fig 1 as showed above the controller acts as a core to the whole of the architecture. And Model is created to handle all the data related requests and responses. And View displays the results to the user and fetches data from the user (to the controller).

This project is to create a web application in which the users can design their own dresses.

1.1 The user has to register and create a profile. This is considered as a user login for the next time the user logins. User profile details are stored in database. User authentication is done by.....

1.2 Complete Dresses, colours and patterns are stored in database. In the Beta version of this project the user can design his own dress on the design area. Here the user should choose the dress from the list and accordingly change the colours and patterns of the dress. This dress can be saved under the user profile.

1.3 The user can take help looking into the most designed dress or most used colours or patterns. This can be done by referring into a new page which consists of all the details.

1.4 User can edit his/her own profile.

1.5 User requests for the dress designs, which is taken as a request and processed and displayed. Similarly User can request for designs, patterns, colours which are most used. Whenever there is a request from the user for a particular reason, events are created.

1. **M&V Architecture:**

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| --- |
| **Controller** |
| **Variables**: |
| 1. |
| **Methods:** |
| 1. requestForDresses()  2. requestForColoursAndPatterns(DressID)  3. requestForUserAuthentication(UserId,Pwd)  4. requestForMostCompleteDesignedDress()  5. requestForMostDesignedDress()  6. requestForMostDesignedColour()  7. requestForMostDesignedPattern()  8. addDesignedDress()  9. showUserProfile() |

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| **View** |
| **Variables**: |
| 1. |
| **Methods:** |
| 1. displayMostCompleteDesignedDress()  2. displayMostDesignedDress()  3. displayMostDesignedColour()  4. displayMostDesignedPattern()  5. displayUserProfile() |

|  |
| --- |
| **Model** |
| **Variables**: |
| 1. |
| **Methods:** |
| 1. pullListOfDresses()  2. pullListOfColours(DressID)  3. pullListOfPatterns(DressID)  4. pullMostCompleteDesignedDress()  5. pullMostDesignedDress()  6. pullMostDesignedColour()  7. pullMostDesignedPattern()  8. authenticateUser()  9. pushDesignedDress(DressID) |

Fig 2: Class diagram for MVC.

1. **Technologies used:**
2. JavaScript:

JavaScript is a language which is based on prototype and there is no statement called as "class" which can be found in Java or C++. The statement used in JavaScript for the same purpose is "function". Defining a class is as easy as defining a function.

In this project object oriented JavaScript is used. There are 3 functions created which are:

a. Controller

b. View

c. Model

a. Controller: This function has methods in it which works on the logic and also interacting with "View" and "Model".

Description of all the methods:

* requestForDresses()

This method is when the users requests for all available dresses and the event is triggered. This is in turn calling the method "pullListOfDresses()" which is in the model. The list is obtained by the controller and is displayed to the user for selection.

* requestForColoursAndPatterns(DressID)

This method is triggered when the user selects to design own dress and also has already selected the dress to be designed.

This method in turn calls two methods:

* pullListOfColours(DressID)
* pullListOfPatterns(DressID)

These methods are present in the model and will pull all the colours and patterns pertaining to the dress selected(DressID).

* requestForUserAuthentication(UserId,Pwd)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
* requestForMostCompleteDesignedDress()
* requestForMostDesignedDress()
* requestForMostDesignedColour()
* requestForMostDesignedPattern()
* addDesignedDress()
* showUserProfile()