1. **Dynamic Perspective**

**Component and Connector View**

* 1. **Primary presentation:**



* 1. **Element catalog:**
     1. **Elements and their properties**

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| **Elements** | | **Properties** |
| **Client tier**  **Database Tier**  **Web tier** | **Web Browser** | A component that send a request to web server and receive a reply is sent by web server. And then it displays UI to user. |
| **Student management** | This GUI help user manage student record such as: import student record, edit student, view student list. |
| **Statistics** | User can view student record following criteria. The student information are displayed on table. |
| **Import Student** |  |
| **Primary Database** | It’s main database server which uses frequently when the system work properly. It’s responsible for store data such as sales data, user data, customer data, store data, product data, and category data. In the certain time, it will synch with temporary database as a backup data. |
| **Backup Database** | It’s a temporary database which uses rarely. It only uses when the system doesn’t work properly, crash or not available. In the certain time, it will synch all data with primary. |
| **StudentController** | The StudentController class contains action methods that render view pages. |
| **UserController** | The UserController class contains action methods that render view pages (AddUser, EditUser, ViewUser) |
| **Web Service** |  |
| **IIS 7** | IIS 7 is a major enhancement to the Windows web platform and plays a central role in unifying Microsoft web platform technologies - ASP.NET, Windows Communication Foundation web services, and Windows SharePoint Services.  It handle requests and replies that are send between client tier and server tier. |
| **ViewUser** | This GUI helps the user to view the User. |
| **AddUser** | This GUI helps the user to add a new User. |
| **ViewStudent** | This GUI helps the user to view the Student. |
| **UserModel** | Storing and retrieving the User information and return a message back to view pages (AddUser, EditUser, ViewUser) |
| **StudentModel** | Storing and retrieving the Student information and return a message back to view pages. |
| **Authority\_BL** | This class contains functions that perform business logic for user management such as: add new user, edit user, view user. |
| **Data\_Handle\_BL** | Contains function that perform business logic for student record management such as: import student, view student, edit student |
| **User\_EF** | Consists of function to retrieve data from database or store, update data - which related User - to database. It is frequently called by class Authority**,** Logon. |
| **Student\_EF** | Consists of function to retrieve data from database or store, update data - which related Student - to database. It is frequently called by class Data Handle, Statistics. |
| **Statistics\_BL** | Contains fucntion that help user to review list of student following criteria. |

* + 1. **Relations and their properties**

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| **Connector** | **Properties** |
| **Request/ Reply** | Connector between client and server style, used by a client to invoke services on a server. |
| **Call return** | Responsible for conveying the service request from the requester to the provider and for returning any results. Use by interface to request data from Filter/Object |
| **Replication** |  |