**ADVANCED WEB SOFTWARE**

PROJECT REPORT

GROUP – WEBSTARS

DALLAS COMMUNITY EVENT HOSTING WEBSITE

GROUP MEMBERS:

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**ARCHITECTURAL DIAGRAM**

CLIENT SERVLET SENDS A REQUEST TO SERVER SIDE REQUEST FOR ALL THE PROCESSING WORK. SERVER SIDE SERVLET COMMUNICATES WITH DATABASE AND SENDS INFORMATION BACK TO THE CLIENT SIDE SERVLET

HTML PAGE IS DISPLAYED TO THE USER. AFTER PROCESSING THE PAGE, A CALL IS MADE TO THE CLIENT SIDE SERVLET.

*DATABASE*

*SERVER SIDE PROXY*

*CLIENT SIDE SERVLETS*

*FRONT END - HTML*

**TECHNOLOGIES USED:**

|  |  |  |
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| Module Name | Technologies Used | Reason |
| 1. Front end look and feel | HTML5, CSS, JavaScript | HTML provides more plugins, cleaner markup, elegant forms and better semantics as compared to HTML |
| 1. Interactions between client and web | SOAP, WSDL | SOAP can be developed using any language as it is interoperable and platform independent. Use of http which makes it scalable |
| 1. Backend Connectivity | MySQL DB | Open source, free to use and convenient. |

Initially, we had decided on using php for the connectivity of front end and backend. But as we were keen on learning something new, we decided on using servlet and proxies for web services.

**THREE MANDATORY SERVICES- DESCRIPTION:**

1. SHOPPING CART:

Any user, who visits the website, can go and visit the online shop. The user can then buy items from the online shop using his credit card. His payment and personal information is stored in a database. It is not necessary for a buyer to be a member of the website. The user can put the items in the cart, remove items from the cart, and dynamically update the quantity of each item which is loaded in the cart.

1. HOSTING EVENTS:

Any member of a community can host events on the webpage. He has to fill out a detailed information about when and where the event is hosted. This event has to be approved by the admin so that there are no discrepancies in the hosted events. Only the events which are approved by the admin will be displayed for the user to register.

1. REGISTRATION FOR THE EVENT:

A member can register for any event which he wishes to attend. With a single form he can register for multiple events. His information and the event he is registered for is stored in a database. Whenever anyone has been successfully registered for the events, he gets a confirmation email for the various events he has registered.

**ADDITIONAL FUNCTIONALITIES:**

1. Pick up – Drop request :

Any user, who wished to attend the events hosted by his community, can attend the event even if he has no proper mode of transportation. He can put a pick up /drop request. Anyone else who has proper mode of transportation can look at the requests posted, and if he lives in a nearby area, can help that person out with the transportation.

1. Membership shop:

A user can renew or take a new membership with the community. He has to be a registered user to use this functionality. Membership can be bought on a monthly or yearly basis. There are also some exciting coupons which a non member can buy from the open online shop.

1. Admin approval for hosting events:

This has been explained in the “hosting events” feature.

1. Sign up for membership:

New members can be added to the community with ease. They have to fill out a form and select a username and password. If a user with similar username already exists in the system, appropriate message is displayed. The information especially password is stored in the database using encryption. This way, anyone who has an access to the database cannot see the password in plaintext.

**PROBLEMS ENCOUNTERED:**

1. Implementing the web service as server and client was a major problem. Initially we were using **cxf** as runtime web server. But then we migrated our work to **axis** which was the default runtime server provided by apache Tomcat.
2. During database replication, we encountered several problems because of not having proper versions of databases. Version 5.6 gave us problem but then we shifted to 5.5 and got it up and running.
3. Dynamically displaying checkboxes for the events hosted gave us some problem. But then that was solved easily by extracting the information from the database.

**REFERENCES:**

1. http://www.eclipse.org/webtools/community/tutorials/BottomUpAxis2WebService/bu\_tutorial.html
2. <http://www.programming-free.com/2012/09/ajax-with-servlets-using-jquery-and-json.html>
3. Other general help from W3CSchools.com and tutorialsPoint.com.