

Auburn University Table Tennis Club (AUTTC) Official Website

1. Introduction

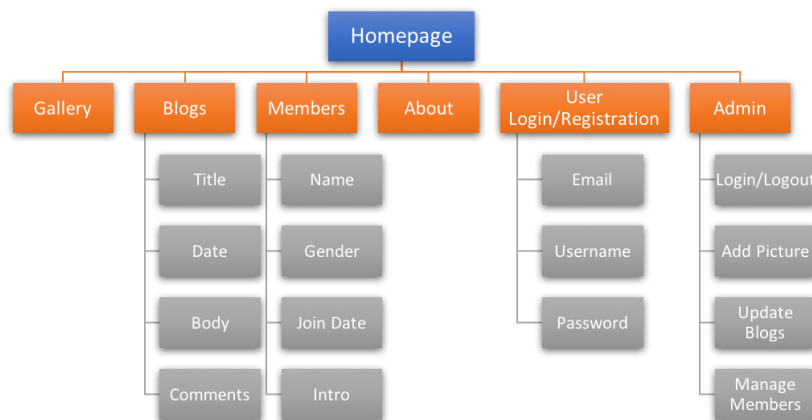
Taking the opportunity of designing a final project for COMP6000, Web Application Development, we would sincerely like to develop a website for Auburn University Table Tennis Club.

Having been established for decades and competing countless tournaments, the club does not have an official media to show its achievements. The club is still growing and competing. Numerous titles have been won for Auburn University by the club. It is necessary for the club to show its achievements and update recent events and news regularly.

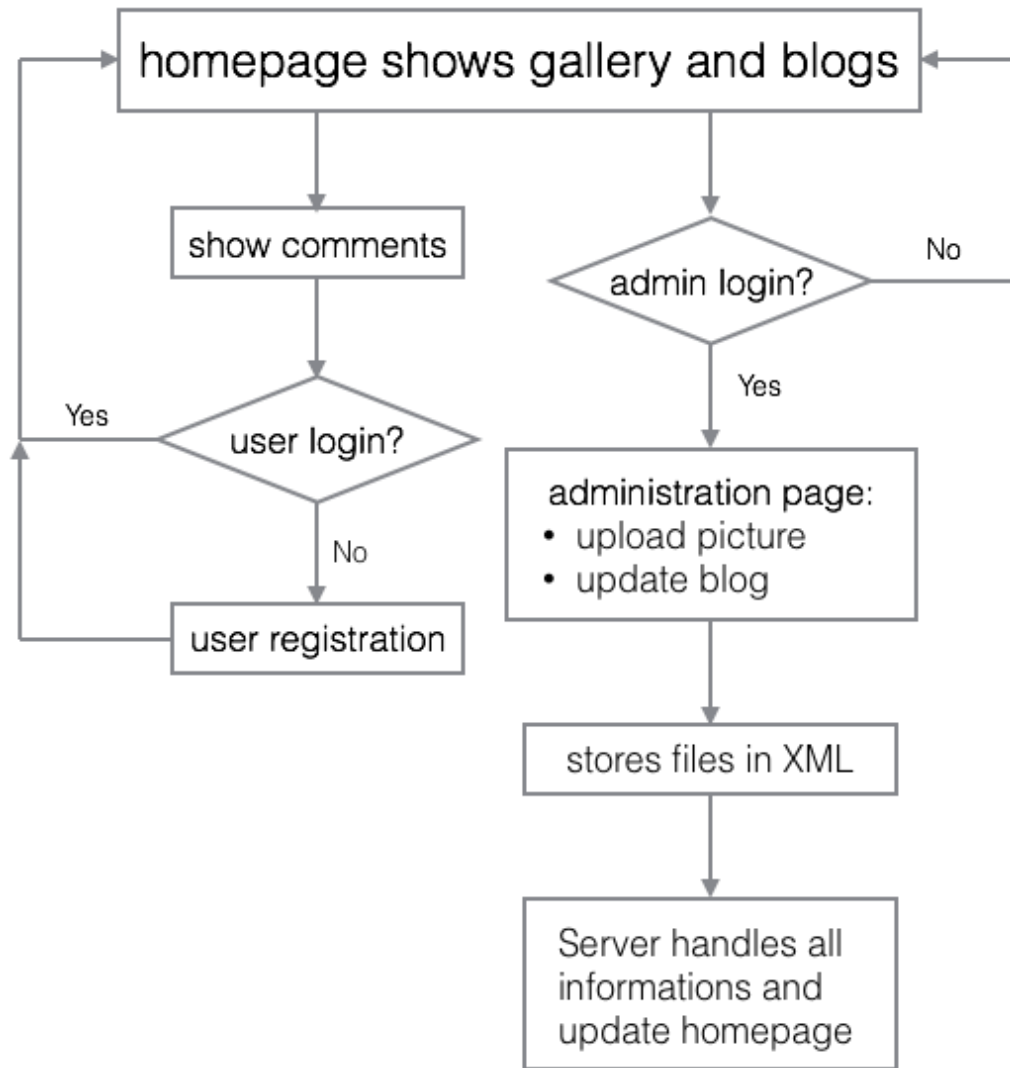
2. System Overview

2.1 System Contents

The website will be developed for AUTTC as an official website. There will be three components: homepage, user registration, and admin page. The homepage will be accessible to all people and include the elements: about, gallery, blogs (include comments for all users), members. The user registration page will include a login page and the admin page will allow administrators to update news



2.2 System Flow

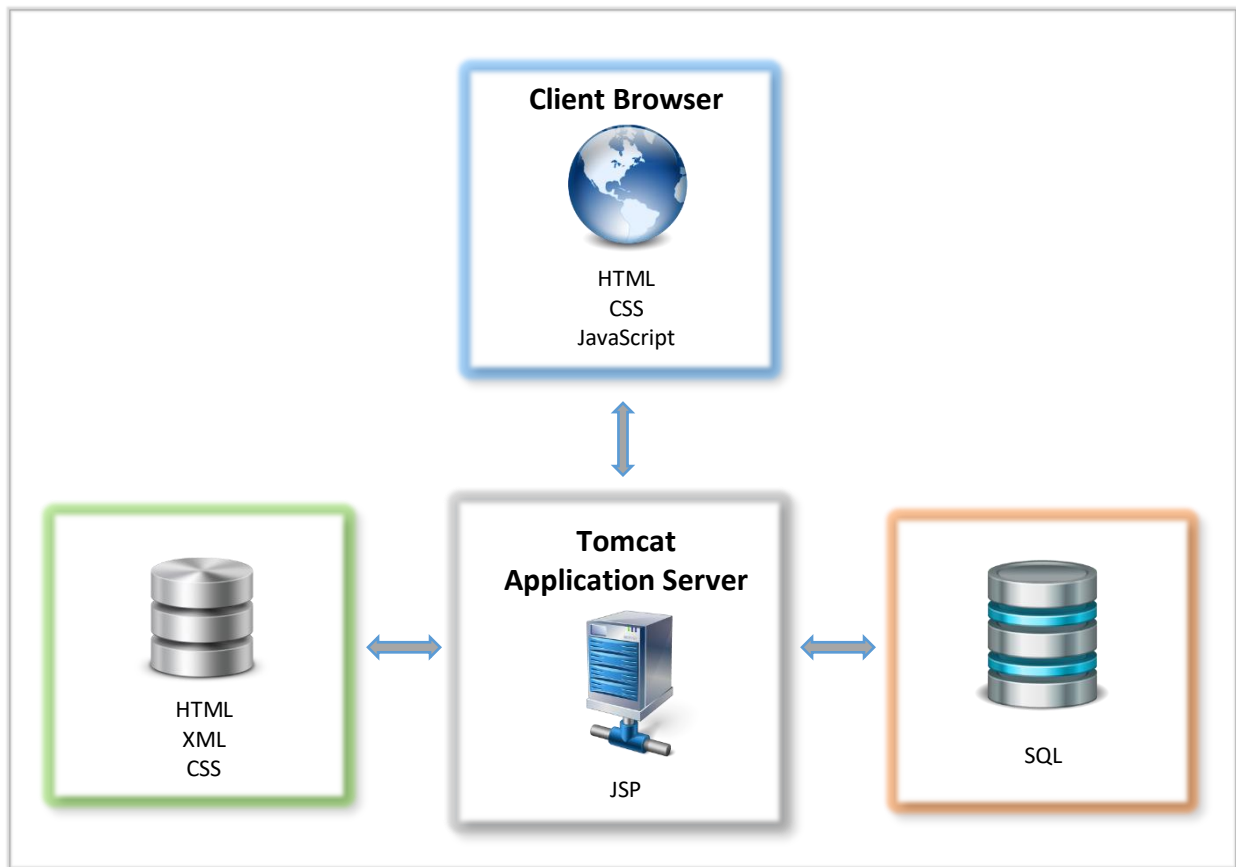


2.3 System Description

The AUTTC application will be built using a combination of HTML, JavaScript, CSS, XML, JSP, and data from a SQL back end. Contents for blogs, comments and member list are stored in XML files. After administrator logs in, he/she will be able to update gallery, blogs, and member list by editing contents in a administrator's page. The updated contents will then be sent to correspondent XML files. The back-end part, JSP/Java Servlet will handle it. Users will need to register in order to see comments, otherwise no comments will be displayed except for the number of comments. All user login information, including both users and administrator, is stored in database with a table, using JDBC/JPA to verify the authentication.

2.4 System Architecture

We use MVC model for the website. Below is a diagram of the technology stack to be used:



2.5 System Security

The security model will provide two different account types: “user” and “admin”. The “admin” accounts implicitly have permission to access all site features, including the security form. The “user” accounts have implicit access to the reports comments.

3. Data Structure Design

3.1 Blogs

Blogs will be stored in XML files. The XML structure for blogs is as follows:

```
<blogs>
```

```
  <blog id ="">
```

```
    <title> </title>
```

```
    <date> </date>
```

```
    <body> </body>
```

```
    <comments>
```

```
      <comment>
```

```
        <username> </username>
```

```
        <cdate> </cdate>
```

```
        <cbody> </cbody>
```

```
      </comment>
```

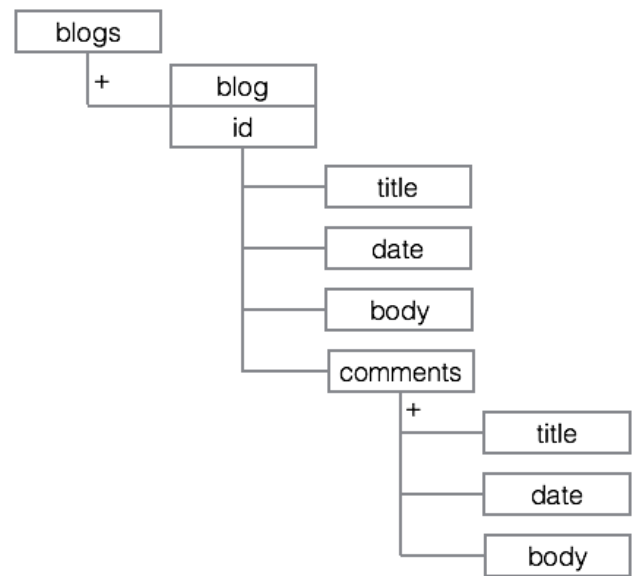
```
      <comment>
```

```
      </comment>
```

```
    </comments>
```

```
  </blog>
```

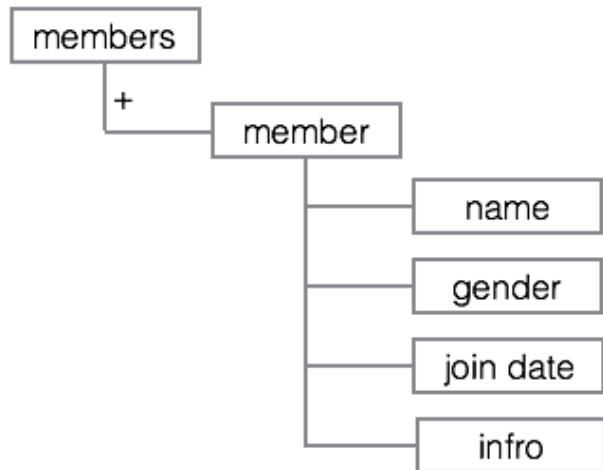
```
</blogs>
```



3.2 Members

Member list is stored in XML file as well. The XML structure for member list is as follows:

```
<members>
  <member>
    <name> </name>
    <gender> </gender>
    <joindate> </joindate>
    <intro> </intro>
  </member>
  <member>
  </member>
</members>
```



3.3 Users Table

Column Name	Data Type	Required	Description
user_id	int(10)	Yes	userID, Primary key
username	char(50)	Yes	User name
password	char(50)	Yes	Password
admin	tinyint(1)	Yes	Is admin