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| **Application and Components Summary Table** | | | | |
| Integrated Application for Assignment 6 : <http://webstrar65.fulton.asu.edu/page9/>  Percentage of overall contribution:  Raveena Phadnis : 40%  Quan Nguyen : 30%  Cathy Vo : 30% | | | | |
| **Provider Name** | **Page and component type** | **TryIt** | **Component description** | **Actual resources and methods used to implement component and where this component is used** |
| Raveena Phadnis | User control | [TryIt](http://webstrar65.fulton.asu.edu/Page9/imageverifiertryit) | The image captcha on Member Registration page is a user control. | ImageVerifierSvc from venus.sod.asu.edu was used to generate a fixed width string. SystemDrawing.Imaging is used to draw the image. |
| Quan Nguyen | Global.asax | [TryIt](http://webstrar65.fulton.asu.edu/page9/) | Session counter that keeps track of sessions using Application variable. | In global.asax, the application start handler sets the counter to 0. The session\_start and session\_end handlers increment and decrement the counter respectively. The “Session Count” is displayed on the home page of the app. |
| Raveena Phadnis | DLL | [TryIt](http://webstrar65.fulton.asu.edu/page9/DLLTryIt) | Hashing function  Input: String  Output: String | Created function hashPassword() using System.Security.Cryptography Will be used in member registration and login to hash password, will be stored in XML. |
| Cathy Vo | Application State | [TryIt](http://webstrar65.fulton.asu.edu/page9) | Session count is kept track using the Application[“SessionCounter”] variable | Application[“SessionCounter”] setup in global.asax and displayed on home page. |
| Quan Nguyen | Cookies | [TryIt](http://webstrar65.fulton.asu.edu/page9/Account/Member) | Username is stored in a cookie and displayed on member page.  On home page, clicking on “Member Page” will redirect to login page if myCookies[“Name”] doesn’t exist. | MemberLogin.aspx stores username into myCookies[“Name”]. This is pulled in the default.aspx page and in Member.aspx page. |
| Raveena Phadnis | Permanent state in XML | [TryIt](http://webstrar65.fulton.asu.edu/page9/Account/MemberLogin) | Member and staff login and password provided through forms | App\_Data/Members.xml for member credentials and App\_Data/Staff.xml for staff credentials. |
| Cathy Vo | Forms Security | [TryIt](http://webstrar65.fulton.asu.edu/page9/Protected/Staff.aspx) | Staff page is protected through staff login. Cannot access staff page without staff login. | Forms security and authentication method added to web.config |
| Raveena Phadnis | SVC service | [TryIt](http://webstrar65.fulton.asu.edu/page9/Account/Member) | A service that returns the annual average sunshine index of a given position (latitude, longitude). This service can be used for deciding if installing solar energy device is effective at the location. | This service uses an API from power.larc.nasa.gov to get the solar energy index for several months and averages it. |
| Raveena Phadnis | SVC services | [TryIt](http://webstrar65.fulton.asu.edu/page9/Account/Member) | Wind Energy Service  Input: latitude and longitude as floats  Output: Average windspeed as float | This service uses an API from power.larc.nasa.gov to get the wind energy index for several months and averages it. |
| Raveena Phadnis | SVC services | [TryIt](http://webstrar65.fulton.asu.edu/page9/Account/Member) | A 5 day weather forecast in the form of min and maximum temperatures is returned to the user. | This service needs two api calls from dataservice.accuweather.com  The first API call returns the location key which is then used by the second API call to get the 5 day weather forecast |
| Quan Nguyen | SVC services | [TryIt](http://webstrar65.fulton.asu.edu/page9/Account/Member) | Natural Hazard data for a location | Calls a RESTful API at <https://www.ncdc.noaa.gov/swdiws> to get natural hazards for a given location |
| Cathy Vo | SVC services | [TryIt](http://webstrar65.fulton.asu.edu/page9/Account/Member) | Property data estimate for a given home address | Created a WSDL service GetPropertyData which calls the RESTful API at api.rentcast.io to get property values |