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| **Application and Components Summary Table** | | | | |
| Percentage of overall contribution: 100% Integrated Application for Assignment 5 : <http://webstrar65.fulton.asu.edu/page1> | | | | |
| **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/page1/Member/Member) | 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. |
| Raveena Phadnis | Global.asax | [TryIt](http://webstrar65.fulton.asu.edu/page1/) | 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/page1/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. |
| Raveena Phadnis | Session State | [TryIt](http://webstrar65.fulton.asu.edu/page1/Member/Member) | Username is displayed using Session state variable | On the login page, entering the username and pressing login will save the username to Session[“name”]. This is “Guest” by default and is set in global.asax. On the member page, there will be a “Welcome username” message, where username is pulled from Session[“name”] |
| Raveena Phadnis | SVC service | [TryIt](http://webstrar65.fulton.asu.edu/page1/Member/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/page1/Member/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/page1/Member/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 |