There exists a need for a system which allows employers and potential employees to connect and conduct job interviews through personal computers over the internet. Such a system would make the restriction of interviewing only local candidates obsolete, therefore maximizing an employer’s ability to find a good match regardless of their physical location.

During the spring 2013 semester a group of FIU students created the Virtual Job Fair website which among other things, allowed employers and students to interact through a webcam. While this system greatly improved the previous system, there are still some problems that needed to be addressed, below are some of them.

Certain talent/skills prove difficult to convey in a voice conversation.

Employers like to collaborate with candidates on documents during the interview process.

Employers want to test a candidate’s ability to react quickly to real-time changes in an interview problem.

Employers want to examine how a candidate develops a solution to an interview problem in real-time.

Candidates want to showcase prior relevant work that exists in formats/tools that employer may not have.

The general requirements of the Project are:

- Allow users to share their screens.
- Allow users to view shared screens.
- Allow users to stop sharing their screens.
- Allow employers to send SMS to students.
- Allow users to receive automatic email and SMS reminders.
- Allow users to confirm their phone numbers.
- Allow students and employers to start using the whiteboard functionality.
- Allow students and employers to stop using the whiteboard functionality.
- Allow students and employers to clear the drawings of the whiteboard.
- Allow students and employers to change color of drawing tools.
- Allow students to block employers and vice versa.

The specific requirements that are related to my work are:

- Allow users to create a new document.
- Allow users to invite another user to a shared document.
- Allow users to delete a shared document.
- Allow users to import a document.
- Allow users to export a document.
- Allow users to rename a document.
- Allow users to save a shared document.
- Maintain access boundaries between non-collaborating accounts.
- Allow FIU Computer Science Seniors to login using their FIU SCIS credentials.

As implemented (see above) Virtual JobFair version 1.0 makes use of a great portion of the interview portal to display some of the candidate’s information. We intend to use this vast screen real estate to provide a set of features/services that solve some of the problems previously listed, enhancing the interview process by allowing both employer and candidate to have an experience as close to possible to a face-to-face interview.

The general requirements of the Project are:

- Test pass.
- The system displays an error dialog notifying the user that the file is invalid.
- The system maintains the concept of document ownership and access control permissions to provide document security for employers and employees.

Future releases may extend the system by implementing a versioning system, expanding on the number of document formats that can be collaborated on, etc.

The PHPUnit software testing framework was used to verify that all subsystem followed specification and performed as planned.

Rational Functional Tester was used to perform system testing.

<table>
<thead>
<tr>
<th>Test Case ID</th>
<th>Purpose</th>
<th>Test Setup</th>
<th>Input</th>
<th>Expected Output</th>
<th>Actual Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>VJF-TC07</td>
<td>Test the Import Document feature of the Collaborative Editor system.</td>
<td>User is at the interview page in an active Collaborative Editor session.</td>
<td>User clicks on import document and proceeds to drag an invalid file (.iso) into the designated upload target area.</td>
<td>Same as expected output. Test passes.</td>
<td>Same as expected output. Test passes.</td>
</tr>
</tbody>
</table>