CS 40800: Test Plan

**Splytr**

Sahil Pujari, Keenan Wresch, Akshit Gudoor, Hari Krishnam Raju, Aritra Samanta

horizontal line

Legend:

[Identification Number]

1. [Descriptive Title], [Severity Level]
2. [Specific Instructions]
3. [Expected Outcome]

Severity Levels:

* “Severity 1” – An aspect that is critical to the success of the software.
* “Severity 2” – An important aspect of the software.
* “Severity 3” – The software could still function if a defect goes unfixed.

horizontal line

Create Account 001

1. “Create Account” Button, Severity 2
2. Click the “Create Account” Button
3. User should be redirected to a “Create Account” page

horizontal line

Create Account 002

1. Submit valid “Create Account” information, Severity 1
2. A valid name, email, and password are submitted
3. User information should be saved in user database and user is redirected to the main page

horizontal line

Create Account 003

1. Null name, Severity 2
2. The form is submitted with no name but valid email and password
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Create Account 004

1. Null email, Severity 2
2. The form is submitted with no email but valid name and password
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Create Account 005

1. Null password, Severity 2
2. The form is submitted with no password but valid email and name
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Create Account 006

1. Invalid name, Severity 3
2. The string “000” is entered as the name with valid email and password
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Create Account 007

1. Invalid email, Severity 1
2. The string “000” is entered as the email with valid name and password
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Create Account 008

1. Password too short (less than 8 characters), Severity 3
2. The string “Ab0” is entered as the password with valid email and name
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Create Account 009

1. Password does not have an uppercase letter, Severity 3
2. The string “abcdefg0” is entered as the password with valid email and name
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Create Account 010

1. Password does not have a lowercase letter, Severity 3
2. The string “ABCDEFG0” is entered as the password with valid email and name
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Create Account 011

1. Password does not have a number, Severity 3
2. The string “AbCdEfGh” is entered as the password with valid email and name
3. User should be notified with an error message and prompted to reenter account information

horizontal line

Login 001

1. “Login” Button, Severity 1
2. Click the “Login” Button
3. User should be redirected to a “Login” page

horizontal line

Login 002

1. Submit correct “Login” information, Severity 1
2. User enters correct email and password and presses submit
3. Server session is started and user is redirected to main page

horizontal line

Login 003

1. Submit incorrect “Login” information, Severity 1
2. User enters incorrect email and password and presses submit
3. User should be notified with an error message and prompted to reenter login information

horizontal line

Logout 001

1. “Logout” Button, Severity 2
2. Click the “Logout” Button
3. Server session is closed and user is redirected to login page

horizontal line

Register Residence 001

1. “Register Residence” Button, Severity 1
2. Click the “Register Residence” Button
3. User should be redirected to a “Register Residence” page

horizontal line

Register Residence 002

1. Valid residence information, Severity 2
2. Valid address, address line 2, city, state, and zip code are entered
3. User is notified of the residence registered and redirected to main page. The residence is entered into the database.

horizontal line

Register Residence 003

1. Null address, Severity 1
2. No address is entered with valid city, state, and zip code
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 004

1. Null city, Severity 1
2. No city is entered with valid address, state, and zip code
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 005

1. Null state, Severity 1
2. No state is entered with valid city, address, and zip code
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 006

1. Null zip code, Severity 1
2. No zip code is entered with valid city, state, and address
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 007

1. Invalid address -- only number, Severity 1
2. The string “000” is entered with a valid address line 2, city, state, and zipcode
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 008

1. Invalid address -- only street, Severity 1
2. The string “abc” is entered with a valid address line 2, city, state, and zipcode
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 009

1. Invalid address -- invalid number, Severity 1
2. The string “000a abc” is entered with a valid address line 2, city, state, and zipcode
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 010

1. Invalid address -- negative number, Severity 1
2. The string “-1 abc” is entered with a valid address line 2, city, state, and zipcode
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 011

1. Invalid address -- invalid street, Severity 1
2. The string “000 $$$” is entered with a valid address line 2, city, state, and zipcode
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 012

1. Invalid address line 2, Severity 1
2. The string “$$$” is entered with a valid address, city, state, and zipcode
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 013

1. Invalid city, Severity 1
2. The string “000” is entered with a valid address, address line 2, state, and zipcode
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 014

1. Invalid state, Severity 1
2. The string “abc” is entered with a valid address, address line 2, city, and zipcode
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 015

1. Invalid characters zip code, Severity 1
2. The string “0000a” is entered with a valid address, address line 2, city, and state
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 016

1. Negative zip code, Severity 1
2. The string “-1” is entered with a valid address, address line 2, city, and state
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Register Residence 017

1. Zip code too large, Severity 1
2. The string “100000” is entered with a valid address, address line 2, city, and state
3. User should be notified with an error message and prompted to reenter residence information

horizontal line

Input Bill 001

1. “Input Bill” Button, Severity 2
2. Click the “Input Bill” Button
3. User should be redirected to a “Input Bill” page

horizontal line

Input Bill 002

1. Valid bill information, Severity 1
2. Valid website, username, and password are submitted
3. User is notified of the bill registered and redirected to main page. The bill is entered into the database

horizontal line

Input Bill 003

1. Invalid website and valid username and password, Severity 1
2. An invalid website is entered with a valid username and password
3. User should be notified with an error message and prompted to reenter bill information

horizontal line

Input Bill 004

1. Invalid username and valid website and password, Severity 1
2. An invalid username is entered with a valid website and password
3. User should be notified with an error message and prompted to reenter bill information

horizontal line

Input Bill 005

1. Invalid password and valid username and website, Severity 1
2. An invalid password is entered with a valid username and website
3. User should be notified with an error message and prompted to reenter bill information

horizontal line

Register Method of Payment 001

1. “Register Method of Payment” Button, Severity 2
2. Click the “Register Method of Payment” Button
3. User should be redirected to a “Register Method of Payment” page

horizontal line

Register Method of Payment 002

1. Valid payment information, Severity 1
2. A valid name, credit card number, expiration date, CSC code are submitted
3. User is notified of the method of payment registered and redirected to main page. The method of payment is entered into the database

horizontal line

Register Method of Payment 003

1. Null name, Severity 1
2. No name is entered with valid credit card number, expiration date, CSC code
3. User is notified of the method of payment registered and redirected to main page. The method of payment is entered into the database

horizontal line

Register Method of Payment 004

1. Null credit card number, Severity 1
2. No credit card number is entered with valid name, expiration date, CSC code
3. User is notified of the method of payment registered and redirected to main page. The method of payment is entered into the database

horizontal line

Register Method of Payment 005

1. Null expiration date month, Severity 1
2. No name is entered with valid name, credit card number, expiration date year, CSC code
3. User is notified of the method of payment registered and redirected to main page. The method of payment is entered into the database

horizontal line

Register Method of Payment 006

1. Null expiration date year, Severity 1
2. No name is entered with valid name, credit card number, expiration date month, CSC code
3. User is notified of the method of payment registered and redirected to main page. The method of payment is entered into the database

horizontal line

Register Method of Payment 007

1. Null CSC code, Severity 1
2. No CSC code is entered with valid name, credit card number, and expiration date
3. User is notified of the method of payment registered and redirected to main page. The method of payment is entered into the database

horizontal line

Register Method of Payment 008

1. Invalid characters in name, Severity 1
2. The string “abc0” is entered as the name with a valid expiration date, credit card number, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 009

1. Invalid characters in credit card number, Severity 1
2. The string “000000000000000a” is entered as the credit card number with a valid expiration date, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 010

1. Credit card number too small, Severity 1
2. The string “0000000000000000” is entered as the credit card number with a valid expiration date, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 011

1. Credit card number too large, Severity 1
2. The string “10000000000000000” is entered as the credit card number with a valid expiration date, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 012

1. Credit card number negative, Severity 2
2. The string “-0000000000000001” is entered as the credit card number with a valid expiration date, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 013

1. Invalid characters in expiration date month, Severity 1
2. The string “0a” is entered as the expiration date month with a valid expiration date year, credit card number, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 014

1. Expiration date month too small, Severity 2
2. The string “00” is entered as the expiration date month with a valid expiration date year, credit card number, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 015

1. Expiration date month too large, Severity 2
2. The string “13” is entered as the expiration date month with a valid expiration date year, credit card number, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 016

1. Expiration date month is negative, Severity 2
2. The string “-1” is entered as the expiration date month with a valid expiration date year, credit card number, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 017

1. Invalid characters in expiration date year, Severity 2
2. The string “0a” is entered as the expiration date year with a valid expiration date month, credit card number, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 018

1. Expiration date year has passed, Severity 2
2. The string “2015” is entered as the expiration date year with a valid expiration date month, credit card number, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 019

1. Expiration date year too large, Severity 2
2. The string “2037” is entered as the expiration date year with a valid expiration date month, credit card number, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 020

1. Expiration date year is negative, Severity 2
2. The string “-1” is entered as the expiration date year with a valid expiration date month, credit card number, name, and CSC code
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 021

1. Invalid characters in CSC code, Severity 1
2. The string “00a” is entered as the CSC code with a valid credit card number, expiration date, and name
3. User should be notified with an error message and prompted to reenter payment information

horizontal line

Register Method of Payment 022

1. Too many characters in CSC code, Severity 1
2. The string “0000” is entered as the CSC code with a valid credit card number, expiration date, and name
3. User should be notified with an error message and prompted to reenter payment information

horizontal lineRegister Method of Payment 023

1. Too few characters in CSC code, Severity 1
2. The string “00” is entered as the CSC code with a valid credit card number, expiration date, and name
3. User should be notified with an error message and prompted to reenter payment information

horizontal lineView Bill 001

1. “View Bill” Button, Severity 1
2. Click the “View Bill” Button
3. User should be redirected to the corresponding “View Bill” page

horizontal line

View Bill 002

1. Split bill calculation, Severity 1
2. The user should be presented with their fraction of the bill at the “View Bill” page
3. The quantity should be accurate and the sum of the quantities should equal the total bill, despite the truncating nature of division

horizontal line

Pay Bill 001

1. “Pay Bill” Button, Severity 1
2. Click the “Pay Bill” Button
3. User should be redirected to the corresponding “Pay Bill” page

horizontal line

Pay Bill 002

1. Confirm amount to pay, Severity 1
2. Upon reaching “Pay Bill” page, the user is be shown their fraction of the bill
3. The amount they are shown at the “Pay Bill” page should match the amount on the “View Bill” page

horizontal line

Pay Bill 003

1. Submit bill payment, Severity 1
2. User clicks “Submit Payment” button
3. User is notified of the payment being submitted and redirected to main page. The method of payment is charged and payment is put towards the bill

horizontal line

Pay Bill 004

1. Submit bill payment without method of payment registered, Severity 2
2. User clicks “Submit Payment” button without previously registering a method of payment
3. User is notified that no method of payment has been registered and is redirected to the “Register Method of Payment” page

horizontal line

Invite Roommate 001

1. “Invite Roommate” Button, Severity 1
2. Click the “Invite Roommate” Button
3. User should be redirected to the corresponding “Invite Roommate” page

horizontal line

Invite Roommate 002

1. Valid roommate email submitted, Severity 1
2. A valid email address is submitted
3. User is notified of the roommate invite being sent and redirected to main page. An email is sent to the given email address providing a link to join the residence

horizontal line

Invite Roommate 003

1. Invalid roommate email submitted, Severity 1
2. The form is submitted with the string “abc” as the email address
3. User should be notified with an error message and prompted to reenter email address

horizontal line

Invite Roommate 004

1. Null email, Severity 1
2. The form is submitted without an email address
3. User should be notified with an error message and prompted to reenter email address

horizontal line

Invite Roommate 005

1. Invite roommate link, Severity 1
2. The invite link is clicked by the new roommate
3. The new roommate is redirected to an invited roommate page where they are prompted to accept or decline the invitation

horizontal line

Invite Roommate 006

1. Accept roommate invite, Severity 2
2. The “Accept Roommate Invite” button is clicked
3. User is notified that they accepted the request. If the roommate does not have an account, they are redirected to the “Create Account” page. Otherwise, they are redirected to the main page.

horizontal line

Invite Roommate 007

1. Decline roommate invite, Severity 2
2. The “Decline Roommate Invite” button is clicked
3. User is notified that they declined the request. They are redirected to the main page.

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