Test Specification

For



Submitted by

Team Savvy

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Grading Rubric – Test Specification

This rubric outlines the grading criteria for this document. Note that the criteria represent a plan for grading. Change is possible, especially given the dynamic nature of this course. Any change will be applied consistently for the entire class.

Achievement	Minimal	Exemplary	Pts	Score
Content	Section(s) missing, not useful, inconsistent, or wrong.	Provides all relevant information correctly and with appropriate detail		
Introduction			5	
Test Specs				
Selection	Aspects tested are trivial	Tests clearly address core system functions	20	
Organization	Tests are disorganized, IDs or Objectives are not meaningful	Tests are well-organized with structured IDs and clear objectives	20	
Set-up	Steps are unclear or incomplete	Complete, easy to follow conditions and steps	20	
Results	Unclear or incomplete	Complete and clear	20	
Grammar and Spelling	Many serious mistakes in grammar or spelling	Grammar, punctuation, and spelling all correct	5	
Expression	Hard to follow or poor word choices	Clear and concise. A pleasure to read	5	
Tone	Tone not appropriate for technical writing	Tone is consistently professional		
Organization	Information difficult to locate	All information is easy to find and important points stand out	5	
Layout	Layout is inconsistent, visually distracting, or hinders use	Layout is attractive, consistent, and helps guide the reader		
Late Submission				
Total			100	

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Table of Contributions

The table below identifies contributors to various sections of this document.

	Section	Writing	Editing
1	Introduction	JJ	EB
2	Test Specifications	EB, RT, CS, JJ	WA

1. Introduction

1.1. Purpose

The purpose of this document is to introduce the test specifications for Savvy which are based upon the System Requirements Specification and the System Design Specifications.

1.2. References

Ashman, W., Buck, E., Jobs, J., McIntosh, C., Santarelli, C., Timken, R. *System Design Specification*. 2015.

Ashman, W., Buck, E., Jobs, J., McIntosh, C., Santarelli, C., Timken, R. *System Requirements Specification*. 2015.

2. Test Specifications

2.1. Account Test (EB, RT, CS, JJ)

Objective	Ensure that users can sign up, log in, edit their Savvy accounts, and submit prices successfully.	
Requirements Tested	SRS 3.2.1.1 through SRS 3.2.1.7, SRS 3.2.3.1 through 3.2.3.6, SRS 3.2.3.8 through SRS 3.2.3.9, SRS 3.2.4.1 through 3 SRS .2.4.4, SRS 3.2.5.2, and SRS 3.2.6.2	
Setup	The user has access to the Savvy website by typing in besavvy.xyz in the Chrome web browser. The user has never used Savvy before and they do not have an existing account nor a price submission.	
Test Steps	not have an existing account nor a price submission. 1. From the Home page, click Sign Up in the global navigation bar 2. System should load Sign Up page. 3. Enter nothing in the form. 4. Click Sign Up button. 5. Ensure "Fill in missing text" message is displayed. 6. Ensure the page loaded the response within 5 seconds. 7. Enter "John" for first name. 8. Enter "Doe" for last name. 9. Enter "lala" for Username. 10. Enter "lala#example.com" for email address. 11. Enter "password1" for password and confirm password boxes. 12. Click Sign Up button. 13. Ensure error message, "Fill in missing text" message is displayed and click OK. 14. Ensure the page loaded the response within 5 seconds. 15. Click the refresh button in the browser navigation.	

- 17. Enter "Doe" for last name.
- 18. Enter "lala" for Username.
- 19. Enter "lala@examplecom" for email address.
- 20. Enter "password1" for password and confirm password boxes.
- 21. Click Sign Up button.
- 22. Ensure error message, "Please fill out this field" pops up and click OK.
- 23. Ensure the page loaded the response within 5 seconds.
- 24. Click the refresh button in the browser navigation.
- 25. Enter "John" for first name.
- 26. Enter "Doe" for last name.
- 27. Enter "lala" for Username.
- 28. Enter "lala@example.com" for email address.
- 29. Enter "password1" for password.
- 30. Enter "password" for confirm password.
- 31. Click Sign Up button.
- 32. Ensure error message, "Please fill out this field" pops up and click OK.
- 33. Ensure the page loaded the response within 5 seconds.
- 34. Click the refresh button in the browser navigation.
- 35. Enter "John" for first name.
- 36. Enter "Doe" for last name.
- 37. Enter "lala" for Username.
- 38. Enter "lala@examplecom" for email address.
- 39. Enter "password1" for password.
- 40. Leave confirm password box empty.
- 41. Click Sign Up button.
- 42. Ensure error message, "Please fill out this field" pops up and click OK.
- 43. Ensure the page loaded the response within 5 seconds.
- 44. Click the refresh button in the browser navigation.
- 45. Enter "John" for first name.
- 46. Enter "Doe" for last name.
- 47. Enter "lala" for Username.
- 48. Enter "lala@example.com" for email address.
- 49. Enter "password1" for password and confirm password boxes.
- 50. Click Sign Up button.
- 51. Ensure the page loaded the response within 5 seconds.
- 52. Click the refresh button in the browser navigation.
- 53. Click Login on the navigation bar.
- 54. Enter lala@examplecom for email address.
- 55. Enter "password1" for password. Click Login.
- 56. Ensure "Email address or password is incorrect." message is displayed.
- 57. Click Login on the navigation bar.

- 58. Enter lala@example.com for email address.
- 59. Enter "wrongpassword" for password. Click Login.
- 60. Ensure "Email address or password is incorrect." message is displayed.
- 61. Click Login on the navigation bar.
- 62. Enter lala@example.com for email address.
- 63. Enter "password1" for password.
- 64. Click Login.
- 65. Ensure "lala" and profile picture display on the upper right side of navigation bar.
- 66. Ensure the page loaded within 5 seconds.
- 67. Click Home on the navigation bar.
- 68. Enter "coffee" in the search field and press enter.
- 69. Ensure the search results pages loads within 5 seconds.
- 70. Select the first product result from the list.
- 71. Ensure the webpage displays a message stating that only accounts that have submitted price information can view product pages.
- 72. Click Logout on the navigation bar.
- 73. Click Login on the navigation bar.
- 74. Click "Forgot your password?"
- 75. Ensure Account Recovery page loads and is loaded within 5 seconds.
- 76. Enter "badlala@example.com" for email address.
- 77. Ensure "We've sent a password reset email to the address provided." is displayed.
- 78. Ensure the page loaded the response within 5 seconds.
- 79. Enter lala@example.com for email address.
- 80. Enter "password1" for password.
- 81. Click Login.
- 82. Ensure "Email address or password is incorrect." message is displayed.
- 83. Ensure the page loaded within 5 seconds.
- 84. Click Login on the navigation bar.
- 85. Click "Forgot your password?"
- 86. Ensure Account Recovery page loads.
- 87. Enter "lala@example.com" for email address.
- 88. Ensure "We've sent a password reset email to the address provided." is displayed.
- 89. Ensure the page loaded within 5 seconds.
- 90. Ensure lala@example.com email account received a password reset email.
- 91. Click Reset Password link in email.
- 92. Ensure the page loaded within 5 seconds.
- 93. Enter "newpassword" for password and confirm password boxes.
- 94. Click Reset Password.

- 95. Ensure Login page loads and does so within 5 seconds.
- 96. Enter lala@example.com for email address.
- 97. Enter "newpassword" for password.
- 98. Click Login.
- 99. Ensure "lala" and profile picture display on the upper right side of navigation bar.
- 100. Ensure the page loaded within 5 seconds.
- 101. Click User image on the upper right side of the navigation bar.
- 102. Click "Account Settings."
- 103. Click "Change Password".
- 104. Ensure "We've sent a password change email to you." is displayed.
- 105. Click Change Password link in email.
- 106. Ensure the page loaded within 5 seconds.
- 107. Enter "newpassword2" for password and confirm password boxes.
- 108. Click Change Password.
- 109. Ensure the Login page loads and does so within 5 seconds.
- 110. Enter lala@example.com for email address.
- 111. Enter "newpassword2" for password.
- 112. Click Login.
- 113. Ensure the page loaded within 5 seconds.
- 114. Ensure "lala" and profile picture display on the upper right side of navigation bar.
- 115. Click the username "lala" in the top right corner.
- 116. Ensure User Settings page loads within 5 seconds.
- 117. Click on "Price Submission History" tab on the User Settings Page.
- 118. Ensure no product listings are displayed in the table.
- 119. Click "Submit Price" in the navigation bar.
- 120. Ensure the price submission page loads within 5 seconds.
- 121. Enter "Folgers Classic Roast" in the Product field.
- 122. Enter "Walmart" in the Place of Purchase field.
- 123. Enter "seven" in the Price Paid field.
- 124. Enter "coffee" in the Add Tags field.
- 125. Click "Add".
- 126. Enter "caffeine" in the Add Tags field.
- 127. Click "Add".
- 128. Click Choose File.
- 129. Select "folgers.jpg".
- 130. Click Open.
- 131. Ensure that a preview of the image selected is displayed.
- 132. Click Submit button.

- 133. Ensure "Please enter only numeric characters in the Price Paid field," message and a receipt of data entered is displayed.
- 134. Click "Submit Price" in the navigation bar.
- 135. Ensure the price submission page loads and does so within 5 seconds.
- 136. Enter "Folgers Classic Roast" in the Product field.
- 137. Enter "Walmart" in the Place of Purchase field.
- 138. Enter "7.94" in the Price Paid field.
- 139. Enter "coffee" in the Add Tags field.
- 140. Click "Choose File" under "Upload a picture of a Product."
- 141. Select "folgers.jpg".
- 142. Ensure that a preview of the image selected is displayed.
- 143. Click Open.
- 144. Ensure that the selected picture is displayed.
- 145. Click "Submit" button.
- 146. Ensure "Price successfully added!" message and a receipt of data entered is displayed.
- 147. Click "Submit Price" in the navigation bar.
- 148. Ensure the price submission page loads and does so within 5 seconds.
- 149. Click "Upload a Receipt" button.
- 150. Ensure the receipt uploader page loads and does so within 5 seconds.
- 151. Click Browse.
- 152. Select "Folgersreceipt.jpg"
- 153. Click Open.
- 154. Click Upload button.
- 155. Ensure the Product Name is populated with "Folgers".
- 156. Ensure Product Price is populated with "7.94".
- 157. Click "Submit Receipt" button.
- 158. Ensure "Price successfully added!" message and a receipt of data entered is displayed.
- 159. Click "Submit Price" in the navigation bar.
- 160. Ensure the price submission page loads within 5 seconds.
- 161. Enter "Starbucks Coffee" in the Product field.
- 162. Enter "Starbucks" in the Place of Purchase field.
- 163. Enter "5.00" in the Price Paid field.
- 164. Enter "coffee" in the Add Tags field.
- 165. Click "Add".
- 166. Enter "burnt" in the Add Tags field.
- 167. Click "Add".
- 168. Click "Submit" button.
- 169. Ensure "Price successfully added!" message and a receipt of data entered is displayed.
- 170. Click "Submit Price" in the navigation bar.

	171. Ensure the price submission page loads within 5 seconds.	
	172. Enter "Banana" in the Product field.	
	173. Enter "7-Eleven" in the Place of Purchase field.	
	174. Enter ".45" in the Price Paid field.	
	175. Enter "banana" in the Add Tags field.	
	176. Click "Add".	
	177. Enter "yellow" in the Add Tags field.	
	178. Click "Add".	
	179. Click "Submit" button.	
	180. Ensure "Price successfully added!" message and a receipt of	
	data entered is displayed.	
	181. Ensure the page loaded within 5 seconds.	
	182. Click the username "lala" in the top right corner of the	
	webpager.	
	183. Ensure User Settings page loads within 5 seconds.	
	184. Click on "Price Submission History" tab on the User Settings	
	Page.	
	185. Ensure "Folgers Classic Roast" and the price "\$7.94" is	
	displayed in the table.	
	186. Click the profile picture icon in the top right corner of the	
	webpage.	
	187. Ensure User Settings page loads within 5 seconds.	
	188. Click on "Price Submission History" tab on the User Settings	
	Page.	
	189. Ensure "Folgers Classic Roast" and the price "\$7.94" is	
	displayed in the table.	
	190. Click FAQs in the navigation bar.	
	191. Ensure that the Savvy Frequently Asked Questions page is	
	loaded and does so within 5 seconds.	
Actual Results		

2.2. Administration Test (EB, RT, CS, JJ)

Objective	Ensure administrator users can perform the appropriate administrative functions.
Requirements Tested	SRS 3.2.1.3 through SRS 3.2.1.4, SRS 3.2.2.1 through 3.2.2.4
Setup	This test requires that an administrator user <u>admin@example.com</u> is registered in the system with the password "password1". It also requires that a user "lala" is registered in the system as a non-administrator and that the tester has access to the " <u>lala@example.com</u> " mailbox.

Test Steps

- 1. Click Login on the navigation bar.
- 2. Ensure the page loaded within 5 seconds.
- 3. Enter "Admin@example.com" for the email address.
- 4. Enter "wrongpassword" for the password.
- 5. Ensure the "Email address or password is incorrect." message is displayed.
- 6. Ensure the page loaded the response within 5 seconds.
- 7. Click Login on the navigation bar.
- 8. Enter "Admin@example.com" for the email address.
- 9. Enter "password1" for the password.
- 10. Ensure "admin" and profile picture display on the upper right side of navigation bar as well as the Accounts Management button.
- 11. Ensure the page loaded within 5 seconds.
- 12. Click "Accounts Management".
- 13. Search "noname" in the user search bar.
- 14. Ensure "No users found." message is displayed.
- 15. Click "Accounts Management."
- 16. Search "lala" in the user search bar.
- 17. Ensure results for "lala" search will display.
- 18. Ensure the page loaded the results within 5 seconds.
- 19. Click on the "lala" hyperlink in search results table.
- 20. Ensure the Account Settings page for "lala" as well as price history table loads and does so within 5 seconds.
- 21. Click "Reset Password" next to user "lala."
- 22. Ensure "Password reset email sent." message is displayed.
- 23. Ensure the page loaded the response within 5 seconds.
- 24. Click "Accounts Management".
- 25. Search "lala" in the user search bar.
- 26. Ensure results for "lala" search will display.
- 27. Ensure the page loaded the results within 5 seconds.
- 28. Click "Make Admin" next to user "lala."
- 29. Ensure "Account type changed successfully." message is displayed.
- 30. Ensure the page loaded the response within 5 seconds.
- 31. Click Logout on the navigation bar.
- 32. Login to the email account associated with Lala's account and click the password reset link.
- 33. Enter "password1" in both the password and password verification fields.
- 34. Click Login on the navigation bar.
- 35. Enter "lala@example.com" for the email address and "password1" for the password.
- 36. Click "login."
- 37. Click "Accounts Management."

	38. Ensure the "Accounts Management" page loads within 5 seconds.
Actual Results	

2.3. Search Test (EB, RT, CS, JJ)

Objective	Ensure the search function returns results based on user input, displays product information on the product pages, and prevents non-registered users of Savvy from viewing product pages.	
Requirements Tested	SRS 3.2.3.6 through SRS 3.2.3.7, SRS 3.2.4.1, SRS 3.2.5.1 through 3.2.5.5, SRS	
Setup	This test assumes that a non-administrator user lala@example.com is registered in the system with the password "newpassword2". It also assumes that a product called "Folger's Coffee" exists within the system.	
Test Steps	<u>lala@example.com</u> is registered in the system with the password "newpassword2". It also assumes that a product called "Folger's	

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	24. Ensure image submitted with the "Folger's Classic
	Roast" is displayed.
	25. Click search bar.
	26. Enter "banana"
	27. Press the "Enter" key on the keyboard.
	28. Ensure that the search result for "Banana" is displayed.
	29. Ensure that a blank default image is displayed.
	30. Click search bar.
	31. Enter "Tavern on Camac".
	32. Press the "Enter" key on the keyboard.
	33. Ensure there is a search result for "Tavern on Camac" displayed.
	34. Ensure the page loaded the results within 5 seconds.
	35. Click Logout on the upper right side of navigation bar.
	36. Click search bar. Enter "Lorem ipsum dolor".
	37. Press the "Enter" key on the keyboard.
	38. Ensure the search results for "No results found." is
	displayed.
	39. Ensure the page loaded the response within 5 seconds.
	40. Click search bar.
	41. Enter "coffee".
	42. Press the "Enter" key on the keyboard.
	43. Ensure search results for "coffee" are displayed.
	44. Ensure the page loaded the results within 5 seconds.
	45. Click "Folger's Coffee" link.
	46. Ensure the Login page is displayed and the "You must be
	logged in to view product pages." message is displayed.
	47. Ensure the page loaded within 5 seconds.
Actual Results	
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2.4. API Test (EB, RT, CS, JJ)

Objective	Ensure the RESTful API returns data when requests are made.
Requirements Tested	SRS 3.2.7.1 and SRS 3.2.7.2
Setup	This test assumes there is valid data in the businesses, products, and prices, collections within the document database.
Test Steps	Open Chrome browser.

	2. Enter:
	http://besavvy.xyz/api/v1/products/search?query=coffee
	into the address bar.
	3. Ensure results for "coffee" are returned in the form of a collection of JSON objects.
	4. Ensure the page loaded within 5 seconds.
	5. Enter:
	http://besavvy.xyz/api/v1/businesses/search?query=taver n into the address bar.
	6. Ensure at least one result for "Tavern" is returned in the form of a collection of JSON object(s).
	7. Ensure the page loaded within 5 seconds.
	8. Enter:
	http://besavvy.xyz/api/v1/prices/get?product=coffee into the address bar.
	9. Ensure price results for "coffee" are returned in the form of a collection of JSON objects including, mean price.
	10. Ensure the page loaded within 5 seconds.
	11. Enter:
	http://besavvy.xyz/api/v1/products/bad?=coffee into the address bar.
	12. Ensure a Not Found message is displayed.
	13. Ensure the page loaded within 5 seconds.
Actual Results	