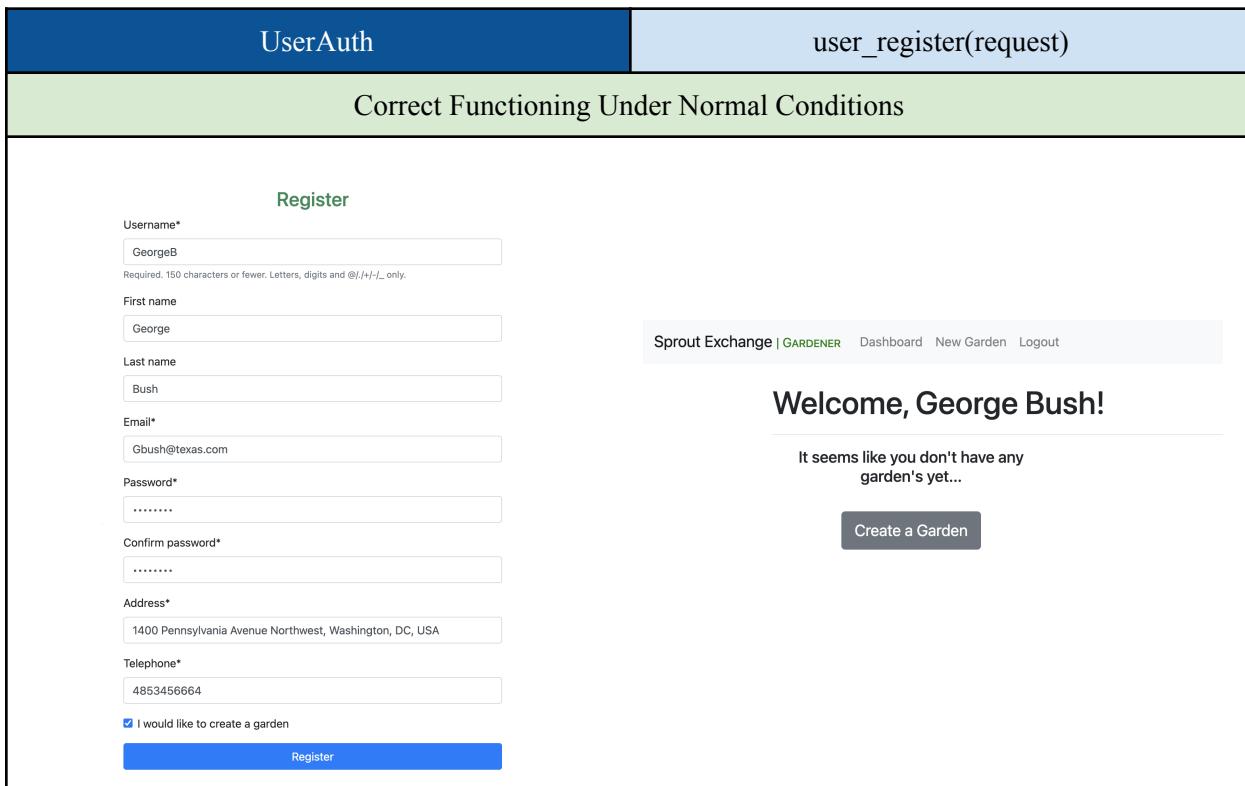
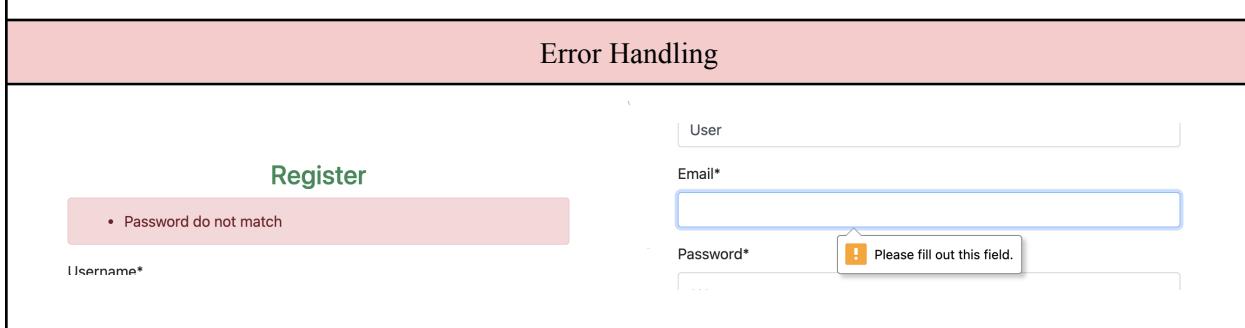


Naiem Gafar
 CSCI 370: Software Engineering
 Dr. John Svalenka
 13 December 2020

Testing Document

Unit Testing

UserAuth	user_register(request)
Correct Functioning Under Normal Conditions	
 <p>The screenshot shows the Sprout Exchange registration process. The user has filled out the form with the following details:</p> <ul style="list-style-type: none"> Username*: GeorgeB First name: George Last name: Bush Email*: Gbush@texas.com Password*: (redacted) Confirm password*: (redacted) Address*: 1400 Pennsylvania Avenue Northwest, Washington, DC, USA Telephone*: 4853456664 <input checked="" type="checkbox"/> I would like to create a garden <p>At the bottom, there is a blue "Register" button. On the right side of the page, after a successful registration, the user is welcomed with "Welcome, George Bush!" and a message stating "It seems like you don't have any garden's yet...". A "Create a Garden" button is also present.</p>	
Error Handling	
 <p>The screenshot shows the Sprout Exchange registration process with error handling. The user has entered "GeorgeB" for both the username and password fields, which results in an error message: "• Password do not match".</p> <p>On the right side, there is another registration form with validation errors:</p> <ul style="list-style-type: none"> The "User" field is empty. The "Email*" field is empty, with an error message: "Please fill out this field." The "Password*" field is empty. 	

UserAuth	user_login(request)
Correct Functioning Under Normal Conditions	
<p>Sprout Exchange GARDENER Dashboard New Garden Logout</p> <p>GeorgeB </p> <p>Welcome, George Bush!</p> <p>It seems like you don't have any garden's yet...</p> <p>Log in Create a Garden</p>	
Error Handling	
<p>The username and/or password is incorrect.</p> <p>SPROUT EXCHANGE</p>  <p>Username Password Log in</p>	

Gardens	create_garden(request)
Correct Functioning Under Normal Conditions	
<p>Give your garden a name*</p> <p>Louisiana Jambalaya Garden</p> <p>Tell us a little more about your garden*</p> <p>It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humor and the like).</p>	
<p>Deadline for sponsors*</p> <p>12/14/2020 <input type="checkbox"/></p> <p>Create Garden</p>	



You have no images ...

Click on the Upload Image button to get started !

GARDEN

Louisiana Jambalaya Garden

Washington, District of Columbia

Campaign Ends in 4 months, 1 week from now

\$0.00 raised
0 backers

[Update Garden](#) [Upload Image](#)

About this Garden

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum'

Error Handling

You must choose a deadline that is 30 or more days away!

Give your garden a name*

Tell us a little more about your garden*

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humor and the like).

Deadline for sponsors*

[Create Garden](#)

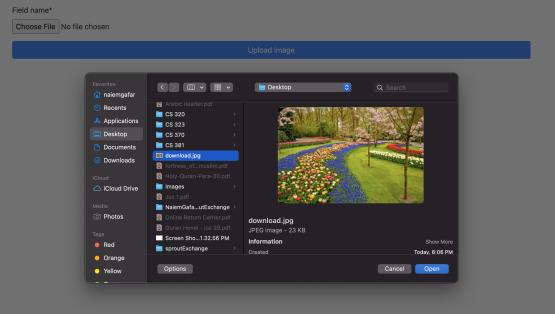
Gardens	delete_garden(request, garden_id)
Correct Functioning Under Normal Conditions	
Welcome, George Bush!	Welcome, George Bush!
<p>Louisiana Jambalaya Garden</p> <p>\$50.00 raised 1 backers</p> <p>View Garden Update Garden Update Patrons Delete Garden</p>	<p>Louisiana Jambalaya Garden</p> <p>\$50.00 raised 1 backers</p> <p>View Garden Update Garden Update Patrons Delete Garden</p>
<p>Dummy Garden</p> <p>\$0.00 raised 0 backers</p> <p>View Garden Update Garden Update Patrons Delete Garden</p>	
Error Handling	
<p>This garden has 1 backer & cannot be deleted! ×</p>	
Welcome, George Bush!	
<p>Louisiana Jambalaya Garden</p>	

Gardens	create_tier(request, garden_id)												
Correct Functioning Under Normal Conditions													
<p>Buy Shares Create New Tier</p> <table border="1"> <thead> <tr> <th>Tier</th> <th>Price/Share</th> <th>Remaining</th> <th>Est. Delivery</th> </tr> </thead> <tbody> <tr> <td>Bucket of Bush's Beans</td> <td>\$10</td> <td>5</td> <td>September 2021</td> </tr> <tr> <td>Green Bean Basket</td> <td>\$11</td> <td>22</td> <td>November 2021</td> </tr> </tbody> </table>		Tier	Price/Share	Remaining	Est. Delivery	Bucket of Bush's Beans	\$10	5	September 2021	Green Bean Basket	\$11	22	November 2021
Tier	Price/Share	Remaining	Est. Delivery										
Bucket of Bush's Beans	\$10	5	September 2021										
Green Bean Basket	\$11	22	November 2021										
Error Handling													
<p>Price per share*</p> <input type="text" value="-100"/> <p>Total shares*</p> <input type="text" value="92"/> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>You must choose a harvest date more than 50 days after April 22, 2021, midnight!</p> </div> <p>Name*</p> <input type="text" value="Green Bean Basket"/> <p>Description*</p> <input type="text" value="There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humor, or"/>													

Gardens	delete_tier(request, garden_id, tier_id)												
Correct Functioning Under Normal Conditions													
<p>Buy Shares Create New Tier</p> <table border="1"> <thead> <tr> <th>Tier</th> <th>Price/Share</th> <th>Remaining</th> <th>Est. Delivery</th> </tr> </thead> <tbody> <tr> <td>Bucket of Bush's Beans</td> <td>\$10</td> <td>5</td> <td>September 2021</td> </tr> <tr> <td>Bushel of Onions</td> <td>\$22</td> <td>12</td> <td>August 2021</td> </tr> </tbody> </table>	Tier	Price/Share	Remaining	Est. Delivery	Bucket of Bush's Beans	\$10	5	September 2021	Bushel of Onions	\$22	12	August 2021	
Tier	Price/Share	Remaining	Est. Delivery										
Bucket of Bush's Beans	\$10	5	September 2021										
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<p>Buy Shares Create New Tier</p> <table border="1"> <thead> <tr> <th>Tier</th> <th>Price/Share</th> <th>Remaining</th> <th>Est. Delivery</th> </tr> </thead> <tbody> <tr> <td>Bucket of Bush's Beans</td> <td>\$10</td> <td>5</td> <td>September 2021</td> </tr> </tbody> </table>	Tier	Price/Share	Remaining	Est. Delivery	Bucket of Bush's Beans	\$10	5	September 2021					
Tier	Price/Share	Remaining	Est. Delivery										
Bucket of Bush's Beans	\$10	5	September 2021										
Error Handling													
<p>This tier has 1 backer & cannot be deleted!</p> 													
<p>GARDEN Louisiana Jambalaya Garden Washington, District of Columbia</p>													

Garden	create_update(request, garden_id)
Correct Functioning Under Normal Conditions	
<p>Title*</p> <input type="text" value="The Garden is Dying, Guys"/>	
<p>Text*</p> <div style="border: 1px solid #ccc; padding: 5px; min-height: 100px;"> <p>There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable. If you are going to use a passage of Lorem Ipsum, you need to be sure there isn't anything embarrassing hidden in the middle of text. All the Lorem Ipsum generators on the Internet tend to repeat predefined chunks as necessary, making this the first true generator on the Internet. It uses a dictionary of over 200 Latin words, combined with a handful of model sentence structures, to generate Lorem Ipsum which looks reasonable. The generated Lorem Ipsum is therefore always free from repetition, injected humour, or non-characteristic words etc.]</p> </div>	
<p>Slug</p> <input type="text"/>	
<input type="button" value="Create Update"/>	
Updates (1) <small>Update Patrons</small> <hr/> <p>The Garden is Dying, Guys Dec. 13, 2020, 6:02 p.m.</p> <p>There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable. If you are going to use a passage of Lorem Ipsum, you need to be sure there isn't anything embarrassing hidden in the middle of text. All the Lorem Ipsum generators on the Internet tend to repeat predefined chunks as necessary, making this the first true generator on the Internet. It uses a dictionary of over 200 Latin words, combined with a handful of model sentence structures, to generate Lorem Ipsum which looks reasonable. The generated Lorem Ipsum is therefore always free from repetition, injected humour, or non-characteristic words etc. Read More</p> <hr/>	
<h3>Error Handling</h3>	
<p>Title*</p> <input type="text"/>	
<p>Text*</p> <div style="border: 1px solid #ccc; padding: 5px; min-height: 100px;"> <p>There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by inj randomised words which don't look even slightly believable. If you are going to use a passage of Lorem Ipsum, you need to be anything embarrassing hidden in the middle of text. All the Lorem Ipsum generators on the Internet tend to repeat predefined c making this the first true generator on the Internet. It uses a dictionary of over 200 Latin words, combined with a handful of mc structures, to generate Lorem Ipsum which looks reasonable. The generated Lorem Ipsum is therefore always free from repetit non-characteristic words etc.</p> </div>	<div style="border: 1px solid #ccc; padding: 2px; border-radius: 50%; text-align: center; width: 15px; height: 15px; margin-right: 5px;">!</div> <small>Please fill out this field.</small>

Gardens	create_comment(request, garden_id, update_id, update_slug)
Correct Functioning Under Normal Conditions	
<p> Lorem Ipsum which looks reasonable. The generated Lorem Ipsum is therefore always free from repetition, injected humour, c etc.</p> <p>Comment:*</p> <p>This is a comment :D</p> <p>Post Comment</p>	
<h2>Comments</h2> <p>GeorgeB Dec. 13, 2020, 6:04 p.m. This is a comment :D</p>	
<h2>Error Handling</h2> <p>Comment:*</p> <p> </p> <p>Please fill out this field.</p>	

Gardens	upload_image(request, garden_id)
Correct Functioning Under Normal Conditions	
	<p>Field name*</p> <p><input type="file"/> Choose File download.jpg</p>
	<p>GARDEN</p> <h2>Louisiana Ja</h2> <p>Washington, District</p> <p>Campaign Ends in 4 mo from now</p> <p>Update Garden Upload I</p> <p>About this Garden</p>
Error Handling	
<p>Field name*</p> <p><input type="file"/> Choose File No file chosen</p> <div style="background-color: #0072bc; color: white; padding: 10px; text-align: center;"> ! Please select a file. </div>	

Component Testing

- The assumption is made that all subsystems can interact with the UserAuth subsystem.
 - It would be excessive to show those tests again.

Exchange ↔ Gardens	create_order(request, tier_id)						
Correct Functioning Under Normal Conditions							
<div style="display: flex; justify-content: space-between;"> <div style="flex: 1;"> <p>Buy Shares</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Tier</th> <th>Price/Share</th> <th>Remaining</th> </tr> </thead> <tbody> <tr> <td>Bundle of Basil</td> <td>\$20</td> <td>11</td> </tr> </tbody> </table> </div> <div style="flex: 1;"> <p>How many shares would you like to purchase?*</p> <input style="width: 100%; height: 30px; border: 1px solid #ccc; margin-bottom: 5px;" type="text" value="10"/> <div style="background-color: #1a3d54; color: white; width: 100%; height: 30px; display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> Buy Now </div> </div> </div> <div style="margin-top: 20px; border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9; border-radius: 10px; text-align: center;"> <p>Italian Herb Garden <i>Bundle of Basil</i></p> <p>10 shares 0 listed August 2021 harvest</p> <p style="display: flex; justify-content: space-around;">View Garden List Shares</p> </div>		Tier	Price/Share	Remaining	Bundle of Basil	\$20	11
Tier	Price/Share	Remaining					
Bundle of Basil	\$20	11					
Error Handling							
<p>How many shares would you like to purchase?*</p> <input style="width: 100%; height: 30px; border: 1px solid #ccc; margin-bottom: 5px;" type="text" value="-9"/> <div style="background-color: #1a3d54; color: white; width: 100%; height: 30px; display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> Buy Now </div> <div style="background-color: #fff; border: 1px solid #ccc; padding: 5px; border-radius: 10px; width: fit-content; margin-left: auto;"> Value must be greater than or equal to 0. </div>							

Exchange ↔ Gardens	create_listing(request, tier_id)
Correct Functioning Under Normal Conditions	
<p>Ask price 400</p> <p>Total shares* 3</p> <p>List Shares</p>	
<p>Bucket of Bush's Beans - Louisiana Jambalaya Garden</p> <p>User Kevin offering for \$400.00</p> <p>3 shares</p> <p>View Garden Buy it Now</p>	
Error Handling	
<p>Total shares*</p> <p>-1</p> <p> Value must be greater than or equal to 0.</p>	

System Testing

1. User accounts shall be created and required to browse gardens, carry out transactions, and communicate with other users. (<i>User accounts ensure that payments are secure, information is saved for future retrieval, and private communication can occur between different users.</i>)	Success
2. All gardeners shall create a garden.	Success
3. Gardeners shall create different levels of shares in their garden that patrons can purchase. Each share shall cost a different amount, proportional to the promised return of produce.	Success
4. Gardeners shall provide updates to their patrons in a blog format, with text and images. (<i>Updates will keep patrons engaged in their garden, or convince them to sell their shares if they are not content.</i>)	Success
5. Patrons shall browse all available gardens. (<i>All gardens that have shares available for sale shall be browsable.</i>)	Success
6. Patrons shall be allowed to monetarily sponsor a garden by purchasing 1 or more shares in that garden.	Partial success <ul style="list-style-type: none"> • Does not work with payments • Payment not implemented given time constraints
7. The system shall allow patrons who own any amount of shares in a garden to list their shares for sale on a marketplace. (<i>In this secondhand market, shares can be listed for price for purchase by other patrons.</i>)	Success