

# SW Engineering CSC648/848 Spring 2021

## Docupaxx

### Team 7

### Milestone 4

5/13/21

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#### History Table:

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# Table of Contexts

1. Product Summary	<u>3</u>
2. Usability test plan	<u>12</u>
3. QA test plan	<u>40</u>
4. Code Review	<u>45</u>
5. Self-check on best practice for security	<u>52</u>
6. Self-check: Adherence to original Non-functional specs	<u>55</u>
7. List of Contributions	<u>76</u>

## **1) Product summary**

**Product Name:** Docupaxx

### **Priority 1 List:**

#### **i . Unregistered User**

1. Unregistered users shall be able to navigate to the registration page.
2. Unregistered users shall be able to create an Account.
3. Unregistered users shall be able to know what features are included on Docupaxx.
4. Unregistered users shall be able to navigate to an Organization's page.
5. Unregistered users shall be able to navigate between supportive pages.

#### **ii . Individual User**

6. Individual users shall be able to sign into the website.
7. Individual users shall be able to log out from the website.
8. Individual users shall be able to create a new Package.
9. Individual users shall be able to see their own Packages.
10. Individual users shall be able to remove their own Packages.
11. Individual users shall be able to give a name to a Package.
12. Individual users shall be able to view an Application Requirement Package
13. Individual users shall be able to add a Document to Packages.
14. Individual users shall be able to remove Documents from Packages.
15. Individual users shall be able to remove Documents from the website.

16. Individual users shall be able to rename Packages.
17. Individual users shall be able to download any Package to the device.
18. Individual users shall be able to rename Documents.
19. Individual users shall be able to search between Packages by name.
20. Individual users shall be able to search between Documents by name.
21. Individual users shall be able to navigate to an Organization's page.
22. Individual users shall be able to send a Package to an Organization.
23. Individual users shall be able to view their own Packages sent to an Organization.
24. Individual users shall be able to take a quiz.
25. Individual users shall be able to exit a quiz.
26. Individual users shall be able to view a list of organizations.
27. Individual users shall be able to navigate between supportive pages.
28. Individual users shall be able to reset passwords.
29. Individual users shall be able to edit their email address.
30. Individual users shall be able to make a one-time payment for their Account

### **iii. Organization**

31. An organization shall be able to display its Organization Page.
32. An organization shall be able to display its Application Requirement Packages.
33. An organization shall be able to receive submitted Packages.

### **iv. Organization Lead**

34. An Organization Lead shall be able to sign into the website.
35. An Organization Lead shall be able to log out from the website.
36. An Organization Lead shall be able to modify the organization's page.

37. An Organization Lead shall be able to invite Organization Members to the organization.
38. An Organization Lead shall be able to create Application Requirement Packages.
39. An Organization Lead shall be able to modify Application Requirement Packages.
40. An Organization Lead shall be able to delete Application Requirement Packages.
41. An Organization Lead shall be able to create an Application Requirement for an Application Requirement Package.
42. An Organization Lead shall be able to modify an Application Requirement for an Application Requirement Package.
43. An Organization Lead shall be able to delete an Application Requirement for an Application Requirement Package.
44. An Organization Lead shall be able to view submitted Packages.
45. An Organization Lead shall be able to download submitted Packages.
46. An Organization Lead shall be able to navigate to an Organization's page.
47. An Organization Lead shall be able to navigate between supportive pages.
48. An Organization Lead shall be able to reset passwords.
49. An Organization Lead shall be able to remove Organization Members from the organization.

#### **v . Organization Member**

50. Organization members shall be able to sign into the website.
51. Organization members shall be able to log out from the website.
52. Organization members shall be able to view submitted Packages.
53. Organization members shall be able to download submitted Packages.
54. Organization members shall be able to navigate to an Organization's page.

- 55. Organization members shall be able to navigate between supportive pages.
- 56. Organization members shall be able to reset passwords.
- 57. Organization members shall be able to create an Account.

#### **vi. Admin**

- 58. An Admin shall be able to sign into the website.
- 59. An Admin shall be able to log out of the website.
- 60. An Admin shall be able to navigate to an Organization's page.
- 61. An Admin shall be able to navigate between supportive pages.
- 62. An Admin shall be able to view an Organization Page.
- 63. An Admin shall be able to delete an Individual User's Account.
- 64. An Admin shall be able to delete an Organization.
- 65. An Admin shall be able to approve an Organization.

#### **vii. Document**

- 66. A Document shall be owned by an Individual User.
- 67. A Document shall be able to have its name modified.
- 68. A Document shall be able to be uploaded by an Individual User.
- 69. A Document shall be able to be downloaded by an Individual User.
- 70. A Document shall be able to be downloaded by an Organization Member.
- 71. A Document shall be able to be downloaded by an Organization Lead.
- 72. A Document shall be able to be removed from the website by its owner.

#### **viii. Package**

- 73. A Package shall be able to have its name modified.
- 74. A Package shall be able to have its Documents displayed.

- 75. A Package shall be submitted by an Individual User.
- 76. A Package shall be able to be viewed by an Individual User.
- 77. A Package shall be able to be viewed by an Organization Member upon submission.
- 78. A Package shall be able to be viewed by an Organization Lead upon submission.
- 79. A Package shall be able to be created by an Individual User.
- 80. A Package shall be able to be downloaded by an Individual User.
- 81. A Package shall be able to be downloaded by an Organization Member upon submission.
- 82. A Package shall be able to be downloaded by an Organization Lead upon submission.

#### **ix. Application Requirement Package**

- 83. An Application Requirement Package shall be able to be created by an Organization Lead.
- 84. An Application Requirement Package shall be able to be modified by an Organization Lead.
- 85. An Application Requirement Package shall be able to be deleted by an Organization Lead.
- 86. An Application Requirement Package shall be able to have their list of Application Requirements displayed.
- 87. An Application Requirement Package shall be viewed by an Individual User after taking the quiz.

#### **x. Application Requirement**

- 88. An Application Requirement shall be able to be created by an Organization Lead.
- 89. An Application Requirement shall be able to be modified by an Organization Lead.
- 90. An Application Requirement shall be able to be deleted by an Organization Lead.

- 91. An Application Requirement shall be able to be viewed by an Individual User.
- 92. An Application Requirement shall be able to be viewed by an Organization Member.

## **xii. Quiz**

- 93. Quiz shall be able to have its Questions displayed.
- 94. Quiz shall be able to be taken by Individual Users.
- 95. Quiz shall be able to be taken as many times desired.
- 96. Quiz shall display results to Individual Users.
- 97. Quiz shall show Application Requirement Package according to certain organizations.
- 98. Quiz shall be able to be exited by an Individual User.

## **xiii. Question**

- 99. Question shall determine the type of search done for the choices to the next Question.
- 100. Question shall be displayed in a Quiz.
- 101. Question shall be viewed by an Individual User.
- 102. Question shall be answered by Individual User.
- 103. Question shall be created by Admin.
- 104. Question shall be modified by Admin.

## **xiv. Account**

- 105. Account shall be created by an Unregistered User.
- 106. Account shall require one time fee payment if the Account Type is Individual User.
- 107. Account shall require a monthly fee for Organization account.
- 108. Account shall have access to different functionalities depending on the Account Type.
- 109. Account shall be able to be disabled by Admin.

## **xv. Password**



- 110. Password shall allow a user to login to their account.
- 111. Password shall be able to display the date last changed.
- 112. Password shall be able to be changed.

#### **xvi. Organization Page**

- 113. Organization Page shall be able to be modified by Organization Lead.
- 114. Organization Page shall be able to be viewed by Organization Members.
- 115. Organization Page shall be able to be viewed by Organization Lead.
- 116. Organization Page shall be able to be viewed by an Individual User.
- 117. Organization Page shall be able to be viewed by an Unregistered User.
- 118. Organization Page shall show the Organization's Contact Information.
- 119. Organization Page shall show a list of Organization's members.
- 120. Organization Page shall be able to be viewed by an Admin.

## Description

Saving documents has always been a hassle for people, as they have to search through all of their files, physically and digitally; to see where they are stored. Docupaxx not only solves this problem for its users, but also allows them to use their documents to easily apply to various organizations that are partnered with us.

Docupaxx allows organizations to create required document lists for their future applicants that contain all the necessary requirements for a given application. This way, organizations would have an easier time to increase their recognizability and have a better, solid application experience.

The main method for generating profit for Docupaxx is that we sell our services to partnering organizations, and they use our product. To market Docupaxx to organizations, we will propose our product through demos, either virtually or in-person. Once an organization partners with Docupaxx and gives Docupaxx permission on file sharing, the user will be able to send their required documents to the organization. As Docupaxx's revenue model, we have decided that individual members pay a one-time fee when registering. Additionally, organizations that want to partner with Docupaxx are required to pay a monthly fee. An organizations' motivation for using our product is because with Docupaxx's convenience, they can generate more revenue by onboarding more potential customers through another avenue. With our accrued revenue, Docupaxx plans to reinvest its profits into enhancing its services by improving security, having a more robust user experience, as well as boosting outreach through more expansive marketing campaigns. However, if an organization is already using services from other competitors, we will market and emphasize how Docupaxx reduces the inconvenience of

file reviewing, especially for incomplete and incorrect applications compared to our other competitors.

A unique quality that our competitors do not have is our superior Quiz feature that leads to a selection of organizations that users tend to apply or research. Once the user is presented with the list of required documents for the Organization they are trying to apply for, they are able to send in their documents to the Organization. The user is able to store files into their Docupaxx dashboard that they could use and reuse for applying for organizations. Those packages are well organized and could be filtered in order for easy access or directly searched through the search bar. These features will allow Docupaxx to be quick and simple for users, since they will be provided with a list of requirements needed for applying to any Organizations. Our combination of taking the quiz for finding application requirements and organizing files, specifically for applying, is something very unique.

**Product URL:** 18.144.82.140

## **2) Usability test plan**

### **Test Objective 1: Quiz**

The objective of this test is to illustrate how our unique Quiz function allows users to efficiently view the required documents needed to potentially apply to desired organizations. We want to show users how taking the quiz is fast and easy as it eliminates the hassle of having to type out the exact organization's name when searching.

### **Test Description**

#### **i. System setup:**

As we aren't in the classroom due to the pandemic we will reach out to our friends and peers to test our website through the shared link we will provide. To access our website the user will need to have access to Chrome browser, Firefox, or Safari. They will follow the instructions based on each test to provide us with feedback to improve or state whether the usability of each test objective will provide great user satisfaction.

#### **ii. Starting point:**

The Starting Point of the Quiz is in the registered users Dashboard. The user who wants to take the quiz has to create an account by signing up and after logging in they will be redirected to their dashboard, where they will have the opportunity to take the quiz.

#### **iii. Intended Users:**

The intended user for the Quiz is for registered users.

#### **iv. URL:** <http://18.144.82.140/>

## **Usability Task Description:**

Instructions for tester:

- 1) The user has to sign up for a Personal Account.
- 2) The user logs in and selects “take a quiz” from the dashboard.
- 3) The user answers a series of questions.
- 4) After answering the questions the user is prompted with the packages from the organization.

## **Test Objective 2: Finding an Organization Search Bar**

The objective for this test is to see if the users can easily and understandably know how to search for an organization through the main search bar. If the user wants to find more information about a specific organization, such as the organization's address, they can do so through the function of a search bar. We want to make sure that the user finds it clear of what to search through that search bar. Clicking the search bar takes the user to the organization's requirement package page where they see what possible packages they can use to potentially apply to an organization.

### **Test Description**

#### **i. System setup:**

As we aren't in the classroom due to the pandemic we will reach out to our friends and peers to test our website through the shared link we will provide. To access our website the user will need to have access to Chrome browser, Firefox, or Safari. They will follow the instructions based on each test to provide us with feedback to improve or state whether the usability of each test objective will provide great user satisfaction.

#### **ii. Starting point:**

The starting point of finding an Organization through the search bar function is on Docupaxx's homepage. When a user is logged in, the search bar function is at Docupaxx's top menu bar. No matter what page the user is on, they have the ability to search for an organization's information whenever they desire. The user receives the search result, and clicking on one of the results will redirect to the organization's package requirements page.

#### **iii. Intended Users:**

The intended users are Individual Users.

iv. URL: <http://18.144.82.140/>

### **Usability Task Description:**

Instructions for tester:

- 1) The user searches for an organization through the search bar on the homepage.
- 2) The user signs up as a Personal account. This gives them privileges as an Individual user.
- 3) The user logs in and is redirected to the homepage.
- 4) The user clicks on the search bar to type a desired Organization to search.
- 5) When they select a desired Organization, the Organization's information will display.

### **Test Objective 3: Organization(Creating Application Requirement Packages for Organization)**

The objective of this test is to demonstrate how an organization lead is able to create the application requirement packages necessary, in which a regular user can use to apply to them. This is a function that will be commonly used by organizations as their requirements will change upon time and need to be updated to provide the correct information to the users as they retrieve their packages. We want to make sure that organization leads are able to change the requirements without difficulty and have a great user experience. Signed up Organizations leads will be able to create application requirement packages, and put requirements inside those packages, each with a name and description.

#### **Test Description**

##### **i. System setup:**

As we aren't in the classroom due to the pandemic we will reach out to our friends and peers to test our website through the shared link we will provide. To access our website the user will need to have access to Chrome browser, Firefox, or Safari. They will follow the instructions based on each test to provide us with feedback to improve or state whether the usability of each test objective will provide great user satisfaction.

##### **ii. Starting point:**

The starting point of Organizations Creating Packages is in the Organization Leads Dashboard. The leads who want to modify or add new packages are able to create the specific packages that will be displayed to the user after they get the results from the quiz.



### **iii. Intended Users:**

The intended users are Organization Leads.

**iv. URL:** <http://18.144.82.140/>

### **Usability Task Description:**

Instructions for tester:

- 1) The user has to sign up for an Organization Lead Account.
- 2) The user logs in and is redirected to the Organizations Lead Dashboard.
- 3) The user clicks on the Add Package Button.
- 4) The user fills out the form to add new package's name and description
- 5) The user clicks on the package's name
- 6) The user clicks on the Add Document Button to fill out a Package Requirement

## **Test Objective 4: Organization(Inviting Members)**

The objective for this test is to portray how an organization lead has the ability to invite organization members to partner with Docupaxx. They will also be able to download submitted packages and evaluate them for application. This function will be used by organization leads as they will invite organization members to ensure that the packages are up to date.

### **Test Description**

#### **i. System setup:**

As we aren't in the classroom due to the pandemic we will reach out to our friends and peers to test our website through the shared link we will provide. To access our website the user will need to have access to Chrome browser, Firefox, or Safari. They will follow the instructions based on each test to provide us with feedback to improve or state whether the usability of each test objective will provide great user satisfaction.

#### **ii. Starting point:**

The starting point of Organization Leads inviting organization members is in the Organization Lead dashboard. Each organization lead will have the ability to invite new members to represent their organizations and make sure they are up to date.

#### **iii. Intended Users:**

The intended users are organization leads and organization members.

#### **iv. URL: <http://18.144.82.140/>**

## **Usability Task Description:**

Instructions for tester:

- 1) The user has to sign up for an Organization Lead Account.
- 2) The user logs in and is redirected to the Organizations Lead Dashboard.
- 3) The user clicks on invite new member in the organization members tab.
- 4) A new member is invited after their information has been filled in.

## **Test Objective 5: (Creating a Package of Documents)**

The objective for this test is to demonstrate how an individual user is able to create a package with the documents from his computer or from the organization packages provided. They will have the ability to add any amount of documents they want to store in each package, which will allow them to be organized. They can also edit the packages to remove any unwanted documents or add new documents that may be needed to submit to an organization. Individual Users will be able create packages, create documents, and attach files to those documents to have them organized and ready to send to organizations.

### **Test Description**

#### **i. System setup:**

As we aren't in the classroom due to the pandemic we will reach out to our friends and peers to test our website through the shared link we will provide. To access our website the user will need to have access to Chrome browser, Firefox, or Safari. They will follow the instructions based on each test to provide us with feedback to improve or state whether the usability of each test objective will provide great user satisfaction.

#### **ii. Starting point:**

The starting point of the Individual User creating a package of documents is in the Individual Users dashboard. Each Individual User will have the ability to create and modify any amount of packages.

#### **iii. Intended Users:**

The intended users are Individual Users.

#### **iv. URL: <http://18.144.82.140/>**

## **Usability Task Description:**

Instructions for tester:

- 1.) The user has to sign up for a Personal Account
- 2.) The user logs in and is redirected to the Individual User Dashboard
- 3.) The user clicks on the Package tab
- 4.) The user clicks on the button “Add a new package”
- 5.) The user fills out the form and adds the package name and description
- 6.) The user saves the package and is redirected to the Individual User Dashboard
- 7.) The user clicks on the package name
- 8.) The user sees the possible Documents it can have
- 9.) The user clicks the “Add a new document” button
- 10.) The user creates new documents

## **Test Objective 6: (Setting the Organization's Profile Picture in Settings)**

The objective for this test is to portray how an organization lead has the ability to change their profile picture. They will be able to go to the settings tab in their dashboard and have the option to change their profile picture to their preference. This function will be used by organization leads as they will have to display a picture that is visually representative so the user knows what organization is being represented. Organization leads can upload their organization's profile picture and save it in their settings tab.

### **Test Description**

#### **i. System setup:**

As we aren't in the classroom due to the pandemic we will reach out to our friends and peers to test our website through the shared link we will provide. To access our website the user will need to have access to Chrome browser, Firefox, or Safari. They will follow the instructions based on each test to provide us with feedback to improve or state whether the usability of each test objective will provide great user satisfaction.

#### **ii. Starting point:**

The starting point of Organization Leads changing their profile picture is in the Organization Lead dashboard. Each organization lead will have the ability to change their profile picture to represent their organizations and make sure they are up to date.

#### **iii. Intended Users:**

The intended users are Individual Users.

#### **iv. URL:** <http://18.144.82.140/>

## **Usability Task Description:**

Instructions for tester:

- 1.) The user has to sign up for an Organization Lead Account
- 2.) The user logs in and is redirected to the Organizations Lead Dashboard
- 3.) The user clicks on the settings tab
- 4.) The user clicks on edit profile
- 5.) The user uploads a profile picture
- 6.) The user clicks save

## **Test Objective 7: (Submitting Packages to an Organization)**

The objective for this test is to portray how an individual user has the ability to submit the packages he/she has created or imported to an organization. This will allow individual users to apply for organizations easily using files they have uploaded from their computer. After an Individual User has seen the requirements for a certain organization's package, they can easily upload their documents to Docupaxx and have them sent to the organization as if they were applying in person.

### **Test Description**

#### **i. System setup:**

As we aren't in the classroom due to the pandemic we will reach out to our friends and peers to test our website through the shared link we will provide. To access our website the user will need to have access to Chrome browser, Firefox, or Safari. They will follow the instructions based on each test to provide us with feedback to improve or state whether the usability of each test objective will provide great user satisfaction.

#### **ii. Starting point:**

The starting point of Individual Users for submitting packages to an organization is in the Individual Users dashboard. Each organization lead will have the ability to invite new members to represent their organizations and make sure they are up to date.

#### **iii. Intended Users:**

The intended users are Individual Users.

#### **iv. URL:** <http://18.144.82.140/>



## **Usability Task Description:**

Instructions for tester:

- 1.) The user has to sign up for a Personal Account
- 2.) The user logs in and is redirected to the Individual User Dashboard
- 3.) The user clicks on send package tab
- 4.) The user clicks on send package button
- 5.) The user clicks on send package button
- 6.) The user adds one of their packages and selects an organization
- 7.) The user sends package
- 8.) The user should see the package in their sent package tab

## **Test 1: Quiz**

**Tester 1 (Kyle's Mom):**

Test/use case	% completed	errors	comments
Quiz	%100	I did not know much about the website from looking at it. There's only a few choices in the organization.	Simple and easy in answering the quiz

## **Lickert Scale Questions:**

- **Quiz was helpful to find an organization.**

strongly disagree   disagree   neutral   **agree**   strongly agree

- **The way the Quiz was structured made it easy to understand.**

strongly disagree   disagree   neutral   **agree**   strongly agree

- **Quiz results were useful to me.**

strongly disagree   disagree   **neutral**   agree   strongly agree

**Tester 2 (Amron's Friend):**

Test/use case	% completed	errors	comments
Quiz	%100	None	The interface works well, however it is limiting because San Francisco is the only city listed.

**Lickert Scale Questions:**

- Quiz was helpful to find an organization.

strongly disagree   disagree   neutral   agree   strongly agree

- The way the Quiz was structured made it easy to understand.

strongly disagree   disagree   neutral   agree   strongly agree

- Quiz results were useful to me.

strongly disagree   disagree   neutral   agree   strongly agree

## Test 2: Finding an Organization Search Bar

Tester 1 (Anna's Boyfriend):

Test/use case	% completed	errors	comments
Finding an Organization Search Bar	% 15	Can't log in as a personal account	Brings up a pop up box that says "{}"

### Lickert Scale Questions:

- It was clear to search for organizations.

**strongly disagree**   disagree   neutral   agree   strongly agree

- Finding information about organizations was simple.

**strongly disagree**   disagree   neutral   agree   strongly agree

- The search bar resulted my desired organization.

**strongly disagree**   disagree   neutral   agree   strongly agree

**Tester 2 (Amron's Friend):**

Test/use case	% completed	errors	comments
Finding an Organization Search Bar	% 100	None	The search bar worked effectively to locate the organization.

**Lickert Scale Questions:**

- It was clear to search for organizations.

strongly disagree   disagree   neutral   agree   strongly agree

- Finding information about organizations was simple.

strongly disagree   disagree   neutral   agree   strongly agree

- The search bar resulted my desired organization.

strongly disagree   disagree   neutral   agree   strongly agree

### Test 3: Organization(Creating Application Requirement Packages for Organization)

Tester 1 (Anna's Boyfriend):

Test/use case	% completed	errors	comments
Organization(Creating Package for Organization)	% 100		Only had a problem with #6 i didnt see a add document button

- **Creating Package Requirements as an Organization Lead was simple.**

strongly disagree   disagree   neutral   **agree**   strongly agree

- **It was effortless to add the required documents.**

strongly disagree   disagree   **neutral**   agree   strongly agree

- **Editing the packages was straightforward.**

strongly disagree   disagree   **neutral**   agree   strongly agree

**Tester 2 (Rodrigo's Sister):**

Test/use case	% completed	errors	comments
Organization(Creating Package for Organization)	100%		It was easy to create a package and add a document

- **Creating Package Requirements as an Organization Lead was simple.**

strongly disagree   disagree   neutral   agree   **strongly agree**

- **It was effortless to add the required documents.**

strongly disagree   disagree   neutral   **agree**   strongly agree

- **Editing the packages was straightforward.**

strongly disagree   disagree   neutral   **agree**   strongly agree

## **Test 4: Organization(Inviting Members)**

**Tester 1 (Anna's Boyfriend):**

<b>Test/use case</b>	<b>% completed</b>	<b>errors</b>	<b>comments</b>
Organization(Inviting Members)	% 100		<b>Only problem was on number 2) i wasn't redirected to the dashboard.</b>

### **Lickert Scale Questions:**

- **Inviting new organization members was easy.**

strongly disagree   disagree   neutral   **agree**   strongly agree

- **The website was easy to navigate.**

strongly disagree   disagree   neutral   **agree**   strongly agree

- **I would recommend this website to my peers and family.**

strongly disagree   disagree   neutral   **agree**   strongly agree



**Tester 2 (Rodrigo's Sister):**

Test/use case	% completed	errors	comments
Organization(Inviting Members)	60%		Invite button doesn't work

- **Inviting new organization members was easy.**

strongly disagree   disagree   neutral   **agree**   strongly agree

- **The website was easy to navigate.**

strongly disagree   disagree   neutral   agree   **strongly agree**

- **I would recommend this website to my peers and family.**

strongly disagree   disagree   neutral   agree   **strongly agree**

## **Test 5: (Creating a Package of Documents)**

**Tester 1 (Anna's Boyfriend):**

<b>Test/use case</b>	<b>% completed</b>	<b>errors</b>	<b>comments</b>
Creating a package of documents	% 100		The only thing was the popup with random stuff inside of it when trying to log in.

### **Lickert Scale Questions:**

- **Creating a Package of Documents was uncomplicated.**

strongly disagree   disagree   neutral   agree   **strongly agree**

- **It was simple to add the documents.**

strongly disagree   disagree   neutral   agree   **strongly agree**

- **Editing the package was smooth.**

strongly disagree   disagree   neutral   agree   **strongly agree**

**Tester 2 (Rodrigo's Sister):**

Test/use case	% completed	errors	comments
Creating a package of documents	100%		It was easy to add packages

- **Creating a Package of Documents was uncomplicated.**

strongly disagree   disagree   neutral   agree   **strongly agree**

- **It was simple to add the documents.**

strongly disagree   disagree   neutral   agree   **strongly agree**

- **Editing the package was smooth.**

strongly disagree   disagree   neutral   **agree**   strongly agree

## Test 6: (Setting the Organization's Profile Picture in Settings)

Tester 1 (Anna's Boyfriend):

Test/use case	% completed	errors	comments
Setting the organization's profile picture	% 15	When i got redirected to log-in after i created my account, the message with the “{}” popped up again. I couldn't go further.	

## Lickert Scale Questions:

- Changing the profile picture was untroublesome.

**strongly disagree**   disagree   neutral   agree   strongly agree

- Uploading profile picture was difficult.

**strongly disagree**   disagree   neutral   agree   strongly agree

- Picture uploaded was visually clear.

**strongly disagree**   disagree   neutral   agree   strongly agree

**Tester 2 (Rodrigo's Sister):**

Test/use case	% completed	errors	comments
Setting the organization's profile picture	60%		When i clicked the save button nothing happens

- **Changing the profile picture was untroublesome.**

strongly disagree   disagree   **neutral**   agree   strongly agree

- **Uploading profile picture was difficult.**

strongly disagree   **disagree**   neutral   agree   strongly agree

- **Picture uploaded was visually clear.**

strongly disagree   disagree   neutral   **agree**   strongly agree

## Test 7: (Submitting Packages to an Organization)

Tester 1 (Anna's Boyfriend):

Test/use case	% completed	errors	comments
Submitting packages to an organization	% 85 (because I was almost there, but I didn't get to see the package).	When on number 8) when i tried sending the package to an organization, a pop up box saying "undefined" would show and it wouldn't send the package.	

### Lickert Scale Questions:

- Submitting a Package to an organization was complex.

strongly disagree   **disagree**   neutral   agree   strongly agree

- Adding the package caused an error.

strongly disagree   disagree   neutral   **agree**   strongly agree

- I was satisfied with the process of submitting a package to an organization

strongly disagree   disagree   **neutral**   agree   strongly agree

**Tester 2 (Rodrigo's Sister):**

Test/use case	% completed	errors	comments
Submitting packages to an organization	70%		When i press the send a package nothing happens

- **Submitting a Package to an organization was complex.**

strongly disagree disagree neutral agree strongly agree

- **Adding the package caused an error.**

strongly disagree disagree neutral agree strongly agree

- **I was satisfied with the process of submitting a package to an organization**

strongly disagree disagree neutral agree strongly agree

### 3) QA test plan - max 2.5 pages

- **Test objectives:** What is being tested is Storage, Security, Compatibility
- **HW and SW setup:**
  - **HW:** AWS System 1vCPU 1GB RAM
  - **SW:** Ubuntu 18.04
- **Feature to be tested:**
  - Image size
  - Password Encryption
  - Device Compatibility
  - Browser Compatibility
  - Account Validation
- **QA Test plan:**

Test #	Test title	Test description	Test input	Expected correct output	Test results
1	Image Size	File size shall not exceed 5MB	5.2MB image	File too large	FAIL, file too large
	Image Size	File size shall not exceed 5MB	24KB image	Inserted to the database with URL path and uploaded to AWS S3 bucket	PASS
	Image Size	File size shall not exceed 5MB	3.1MB image	Inserted to the database with URL path and uploaded to	FAIL, file too large



				AWS S3 bucket	
2	Password Encryption	Check if orgLead account's password is encrypted and matched to log in	Logging in using any orgLead account that has encrypted password	Able to log in and hashed password is matching with entered password	PASS
	Password Encryption	Check if orgMember account's password is encrypted and matched to log in	Logging in using any orgMember account that has encrypted password	Able to log in and hashed password is matching with entered password	PASS
	Password Encryption	Check if individualUser account's password is encrypted and matched to log in	Logging in using any individualUser account that has encrypted password	Able to log in and hashed password is matching with entered password	PASS
3	Device Compatibility	Check if the website runs on PC desktop	Putting URL link and testing multiple pages	Site pops up, all pages look good	PASS
	Device Compatibility	Check if the website runs on Mobile	Putting URL link and testing multiple pages	Site pops up, all pages look good	FAIL because in some pages, some components are not properly aligned
	Device Compatibility	Check if the website runs on iPad	Putting URL link and checking multiple pages	Site pops up, all pages look good	FAIL because in some pages, some components are not properly aligned

4	Browser Compatibility	Checks if the website runs on Google Chrome	Entering URL link	Able to access site within a short time	PASS
	Browser Compatibility	Check if the website runs on Firefox	Entering URL link	Able to access site within a short time	PASS
	Browser Compatibility	Check if the website runs on Safari	Entering URL link	Able to access site within a short time	PASS
5	Account Validation	Check for taken username validation.	Putting a username already in the database for Signup	Shows that the username is already taken because it is already entered in the database.	PASS
	Account Validation	Check “email” text validation	Putting “hello” for the signup email field.	Email field text must be in an field format, for example, one requisite is the input must include “@”	PASS
	Account Validation	Check for taken organization name validation	Putting an organization name already in the database for Signup	The organization will not be allowed to be created because an organization with the name already exists	FAIL, will prompt the user that the organization with a taken organization name can be created.
6	User Privacy	Check if user can access another	User logs in, copies the url,	Access Denied,	FAIL because we don’t

		user's dashboard	logs out, gives the url to another user, who then pastes it into a browser.	account has been logged out, and thus can't be accessed until user logs back in.	have that security currently.
	User Privacy	Check if an organization can access a user's dashboard pages	User logs in as a user, copies the url, logs out, gives the url to an organization member, who then pastes it into a browser.	Access Denied, account has been logged out, and thus can't be accessed until user logs back in.	FAIL because we don't have that security currently.
	User Privacy	Check if a user can access an organization's dashboard	Organization Member/Lead logs in, copies the url, logs out, gives the url to the user, who will then paste it into a browser.	Access Denied, account has been logged out, and thus can't be accessed until user logs back in.	FAIL because we don't have that security currently.
7	File Extension Audit	Check if image upload accepts JPG/JPEG/PNG extensions	Inputting a PDF extension file	Denies the input and prevents uploading	FAIL because the system cannot filter out the extension and it's going to upload regardless
	File Extension Audit	Check if image upload accepts PDF extension	Inputting a JPG extension file	Denies the input and prevents uploading	FAIL because the system cannot filter out the extension and it's going to upload regardless

	File Extension Audit	Checks if image upload accepts TXT extension	Inputting a .txt extension file to upload	Accepts the file and uploads to S3 bucket	PASS. Right now, the system will upload file with any extension
8	Look and Feel	Check if organizations have a profile picture in their Settings Page	Going to setting menu after login and input an image to save	See the image that is input	PASS
	Look and Feel	Check if individual users have a visible profile picture in their menu	Going to setting menu after login and input an image to save	See the image that is input	FAIL because we don't have it implemented
	Look and Feel	Check if organizations have a profile picture in the Organization Search Bar	Going to setting menu after login and input an image to save	See the image that is input	FAIL because Search Bar could not access to the uploaded image

## 4) Code Review:

### Coding Style

**Variables:** Camel Case for variable names

**Indentations for functions:** K&R Style

**Database Fields:** Snake Case for database field names

**Migration Files:** Snake Case for migration file names

**Commenting:** Function headers and single line comments on clusters of lines

**Code written by:** Janson Leong: [jleong6@mail.sfsu.edu](mailto:jleong6@mail.sfsu.edu)

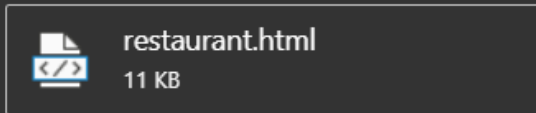
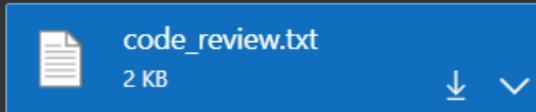
**Code reviewed by:** Bikram Tamang: [btamang@mail.sfsu.edu](mailto:btamang@mail.sfsu.edu)

```
//Code Reviewed by : Bikram Tamang (Front end member - Team 05)
//General comment : Well written code overall. Some general suggestion,
//can use spacing between comments so the code looks
// more organized and clean.

//updates the specific package
router.patch("/users/:userId/packages/:id", async (req, res) => {
  //checks the package table for the user's packages
  const size = Object.keys(req.body.requiredDocuments).length;
  try{
    const indiv = await IndividualUser.query().where("id", req.params.userId).first();
    const pack = await Package.query().where("id", req.params.id).first();
    console.log(pack);
    //updates the name & description
    const updatePack = await Package.query().update(
      {name: req.body.name, description: req.body.description}
    ).where("id", pack.id);
    //deletes all documents that are in the package, and reuploads them
    const clearDoc = await Document.query().delete().where("package_id", pack.id);
    console.log(clearDoc);
    //inserts each document
    for (i = 0; i < size; i++){
      const insertDoc = await Document.query().insert({
        id: uuidv4(),
        user_id: indiv.id,
        package_id: pack.id,
        name: req.body.name,
        description: req.body.description
      });
      console.log(insertDoc);
    }
    return res.send(pack);
  }catch(error){
    console.log(error);
    return res.status(500).json({
      message: 'Internal Error when inserting into database'
    })
  }
});
```



**Bikram Tamang**  
Sat 5/8/2021 9:27 PM  
To: Janson Jun Jie Leong



2 attachments (12 KB)   Download all   Save all to OneDrive - San Francisco State University

here is the review. Janson. and i have also attached my front end code.  
please take a look and leave some review.

Thanks, Bikram



**Janson Jun Jie Leong**  
Sorry about that, here's a file with the code to review.



Sat 5/8/2021 9:02 PM



**Bikram Tamang**  
Hello Janson, can you send me the file so i can leave comme...

Sat 5/8/2021 8:47 PM



**Janson Jun Jie Leong**  
Hello, thank you for agreeing to review some of our code via ...

Sat 5/8/2021 8:25 PM

Code written by: Anna Pham: [apham6@mail.sfsu.edu](mailto:apham6@mail.sfsu.edu)

Code reviewed by: Htet Soe: [hsoe1@mail.sfsu.edu](mailto:hsoe1@mail.sfsu.edu)

```
// function to validate the organization's name is valid.
export const backendOrganizationNameValidationActions = () => {
  const organizationValidationAction = (organizationName) => {
    request(`/organizations/getbyorganizationname?organizationName=${organizationName}`) // calling to the backend.
    .then((organizations) => {
      if (organizations.length > 0) { // if the organization list is > 0, then the organization name is already taken.
        Promise.reject([message: "Organization name is already taken."])
        return
      }
      Promise.resolve([message: "Organization name is available!"]) // otherwise, the organization name is available.
    });
  };
  return [organizationValidationAction]
};
```



Htet Soe  
Wed 5/12/2021 6:09 PM  
To: Anna Pham



Hi Anna,

Absolutely can review your guys' snippet of code (let me ask one of you guys when I take his class next semester!). I'm not too familiar with Js, but even without looking at outside classes/functions I can tell what the purpose of the function is for.


There's a concise number of comments prior to the function to tell others who're working on it what it does. The name of functions and promises are consistently in camelCase, and are fairly straightforward enough to be self-explanatory to tell us what it does. If not, the inline comments will.

Readability is great too - if I were to nitpick, I think line 26's missing a semicolon, and comments could be slightly more descriptive (I know what the function does now, but how is it going to do it? - though I understand if it feels redundant or unnecessary) inside a multi-line comment block.

Overall think it looks great. Unfamiliarity with Js also has me questioning why the function returns with square brackets on line 30, though I did look at a couple Google results.

Hope this helped, sorry for the mouthful - not quite sure how to go about a code review (:


**Code reviewed by:** Amron Berhanu: [aberhanu@mail.sfsu.edu](mailto:aberhanu@mail.sfsu.edu)

 Amron Alemu Berhanu  
Thu 5/13/2021 11:47 AM  
To: Kyle Humphrey

Hi Kyle,

That's a well-done function: it is well structured, with concise and descriptive comments that explain what is going on. I must say, however, that even though they are not required, having semicolons that terminate your statements is considered best practices.

Best,  
Amron B.



```
// Loads the current session of the user
router.get("/sessions", async (req, res) => {
  console.log("req.session.id: " + JSON.stringify(req.sessionID))
  // If the user has no information on their session, then they get the info as if they have been signed out
  if (!req.session.locals) {
    console.log("no locals")
    req.session.locals = {
      "type": "signedout",
      "user": "",
      "userId": "",
      "id": 1,
      "dashboardToken": "",
      "messageHeader": "",
      "message": "",
      "status": "",
      "count": ""
    }
    // If new info added, the session saves its data
    await req.session.save()
  }
  // Afterwards the relevant session data is sent to the frontend function calling it
  console.log("req.session.locals: " + JSON.stringify(req.session.locals))
  res.send([req.session.locals])
})

router.patch("/sessions:id", async (req, res) => {
  console.log("req.session.id: " + JSON.stringify(req.sessionID))
}
```



**Code written by:** Amron Berhanu: [aberhanu@mail.sfsu.edu](mailto:aberhanu@mail.sfsu.edu)


**Code reviewed by:** Kyle Humphrey : [khumphrey@mail.sfsu.edu](mailto:khumphrey@mail.sfsu.edu)

AB

Amron Alemu Berhanu

Thu 5/13/2021 2:04 PM

To: Kyle Humphrey

 sendpackage.js.txt

2 KB

Hi Kyle,

Here's a function that gets called when a user is trying to send a package to an organization. This function is an endpoint for **"POST /users/:userId/sendpackage/:packageId"** and clones the specified Package's information into a SendPackage entry, and does the same with each of the Document(s) in the Package to a SendDocument entries.

Please have a look at the attached file that contains the code, and let me know what you think -- any feedback is good feedback!

Thanks,  
Amron B.

👍 ↶ ↷ ➡ ...

KH

Kyle Humphrey

Thu 5/13/2021 5:27 PM

To: Amron Alemu Berhanu

Hi Amron,

Thank you for making this function for the Backend! Overall your coding for the function is really good! I was able to easily understand what was going on, thanks to the line comments you put.

I also like how you have done proper error checking in terms of having catch statements after Promise statements.

One correction I would make is that the SentPackage id should be its own unique uuidv4(), and should not be tied to the original Package in that way.

Similarly, the cloneUrl function will, of course, need to be implemented for the Sending package feature to work. And probably would be good to also have comments explaining the Array.isArray() method as well.

But other than that, this is really good code! We will definitely be able to use it in Backend, and I really appreciate your work! 😊

From,  
Kyle Humphrey

👍 ↶ ↷ ➡ ...

### Code for Kyle's review on Amron

```
// User sends a package to an organization
router.post("/users/:userId/sendpackage/:packageId", async (req,res)=>{
  const userId = req.params.userId;
  const packageId = req.params.packageId;
  const organizationId = req.body.organizationId;

  // TODO - Helper function that clones file from given url to make
  //          a deep copy and return new url
  const clonedUrl = await((url) => {
    // 1 - Get file from link
    // 2 - Download file and make deep copy
    // 3 - Upload new cloned file
    // 4 - Return url of cloned file
    return url
  });

  // Get package info
  const package = await Package.query()
    .findById(packageId)
    .catch((error)=>{
      console.dir(error);
      return res.send(500,json({
        message: "Internal Error"
      })))
    })

  // Make a SentPackage data entry
  const sentPackage = await SentPackage.query()
    .insert({
      id: package.id,
      name: package.name,
      description: package.description,
      user_id: userId,
      organization_id: organizationId
    }).catch((error)=>{
      console.dir(error)
      return res.send(500,json({
        message: "Internal Error"
      })))
    },
  )
```

(continues exactly on next page)

```

// Find all Documents in the package
const documents = await Document.query()
  .where("package_id", package.id)
  .catch((error)=>{
    console.dir(error)
    return res.send(500,json({
      message: "Internal Error"
    })))
  })
// Get number of documents
const docLength = documents.length;

// Make SendDocuments entries with documents
// If package has any documents, create SendDocument entries
if(Array.isArray(documents) && docLength){
  for(i = 0; i < docLength; i++){
    const sentDocument = await SentDocument.query()
      .insert({
        id: uuidv4(),
        name: documents[i].name,
        description: documents[i].description,
        sentPackage_id: sentPackage.id,
        url: clonedUrl(documents[i].url)
      }).catch((error)=>{
        console.dir(error)
        return res.send(500,json({
          message: "Internal Error"
        })))
      })
  }
}

return res.send({});
})

```

## **5) Self-check on best practices for security**

<b>Security</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Personal documents uploaded shall be protected from other users' access	Implementation for file upload in progress	<b>ON TRACK</b>
Passwords for all users shall be encrypted	Password encryption in progress, <b>requirement added</b>	<b>ON TRACK</b>
All users will be validated for their email address	None	<b>ON TRACK</b>
Entry Forms are validated	Entry Forms in progress, <b>requirement added</b>	<b>ON TRACK</b>
Contact Forms are validated	Contact Forms in progress, <b>requirement added</b>	<b>ON TRACK</b>
Internal Website Forms are validated	Validation Implementation in progress, <b>requirement added</b>	<b>ON TRACK</b>
Login shall require user name/email and password	None	<b>DONE</b>
Password needs to have at least one special character	Implementation for character type existence requirement in progress	<b>ON TRACK</b>
Password needs to have at least one numeric character	Implementation for character type existence requirement in progress	<b>ON TRACK</b>

Password needs to satisfy the length of at least 8 characters	Changed from 10 characters to 8 characters, <b>requirement changed</b>	<b>DONE</b>
Inactivity timeouts shall be activated 30 minutes after an inactivity countdown	None	<b>ON TRACK</b>

### Form Validation

Form validation is on track and part of our security requirements. We have started validating forms with the Backend so that no duplicate usernames get created for Accounts, emails are in email format, and passwords are of length equal to or longer than 8.

## Welcome to Docupaxx!

**Sign Up for Personal Use**  
 Fill out the form below to sign up for personal use.

**Username \***  
  

• Username is already taken.

**Email \***  
  

• Email must be an email

**Password \***  
  

• Password must have at least 8 characters

Sign Up

? Already signed up? [Login here](#) instead.
 

Exit

## Password Encryption

We have encrypted passwords for every kind of User in our Database, using bcrypt and have deleted all test accounts with plain passwords.

```
console.log('org: ' + JSON.stringify(org));
const user = await OrganizationLead.query().insert({
  id: uuidv4(),
  username: req.body.username,
  email: req.body.email,
  password: await bcrypt.hash(req.body.password, 10),
  organization_id: org.id
})
console.log(typeof user)
return res.send(user)
```

id	username	email	password	image	thumbnail	created_at	updated_at
0a3a6321-8be9-4215-8366-53b2b1184b	goku	goku@gmail.com	\$2b\$10\$chcCfOwvC05d3tgqc5lMexPjr,5n.I.Z...	NULL	NULL	2021-05-13 18:06:46	2021-05-13 18:06:46
1543d6c6-1b85-4758-8454-c1d0fd94ed34	thomas	thomastabayi@gmail.com	\$2b\$10\$GfDEOsCdr53joedMjQ6SeqwonFE02Ia...	NULL	NULL	2021-05-14 01:30:40	2021-05-14 01:30:40
2627f2e5-7d3b-4ebb-9983-1418ed43ccae	water621	bob@gmail.com	\$2b\$10\$18eJ2Wm6nptN0mL2GWW.mSO3Pg7Qzr...	NULL	NULL	2021-05-13 22:48:38	2021-05-13 22:48:38
2c849568-b10b-49af-a0ed-7b2634f202e8	mito2	mito@gmail.com	\$2b\$10\$fxEO/qfN7kgh5VnjSVZlOJW/vfJxkw7Z...	NULL	NULL	2021-05-13 23:53:01	2021-05-13 23:53:01
40e6cdd3-3893-4ef5-83d3-6dd2808e8616	luz123	luzrojas43@yahoo.com	\$2b\$10\$J6Ev8QoUXnIVC4KsXfT3u2sAQBu.YPi3...	NULL	NULL	2021-05-13 22:47:55	2021-05-13 22:47:55
47b71974-2ef6-40ac-99ca-e4eae962cea	fire	fire@gmail.com	\$2b\$10\$PFRO5CqdVOunXR4Ou6wc.Ti424kbqVi...	NULL	NULL	2021-05-13 19:01:32	2021-05-13 19:01:32
59f8824a-fb6e-4949-a219-76c3448ff022	apple	apple@mail.com	\$2b\$10\$7A9ionKxD7wkU5b49...q.YidIT37Ltm2...	NULL	NULL	2021-05-13 20:25:31	2021-05-13 20:25:31
5b2aaf0d-f48e-4d1c-8184-a244c57c99c6	fire92	fire92@gmail.com	\$2b\$10\$.fn4WtqHB/R6QOKer3X,1e.uwRBzQas...	NULL	NULL	2021-05-13 12:05:43	2021-05-13 12:05:43
82acc7c1-f6aa-4e2b-aa79-6b3ad006f006	vtestQA1	vtestqa1@email.com	\$2b\$10\$8eBVj7yJol8dngXGFAkjp.UbplwwTxb...	NULL	NULL	2021-05-13 19:33:34	2021-05-13 19:33:34
85801c6c-5c2e-42cd-bca2-5249277ee437	mito	gurrola161@gmail.com	\$2b\$10\$u7pCpxSTIZ2F24TwzSraedXHgN37ZDd...	NULL	NULL	2021-05-13 23:27:57	2021-05-13 23:27:57
8e73587f-f8ed-46c2-ae38-8c176f308483	vindividual1	vindividual1@mail.com	\$2b\$10\$EiHLbV98APy87M.ohljGfubiBjP8Tozp0...	NULL	NULL	2021-05-13 22:07:35	2021-05-13 22:07:35
addc2826-7d2e-4511-a99d-a1500f8dba92	luz	luzrojas21@yahoo.com	\$2b\$10\$irZ5pdJXmo/U3BENFJuaW...2aqJGLlwM...	NULL	NULL	2021-05-13 22:55:23	2021-05-13 22:55:23
b30b68ca-efa9-44ec-815b-f663b049b324	buns	buns@gmail.com	\$2b\$10\$R4L7Z53U0rm4ygeNUiX8QOMOO9AhcL...	NULL	NULL	2021-05-13 21:02:47	2021-05-13 21:02:47
ba8d42d4-1da6-403b-925e-e023f127a81a	whyme	amazing.lemon@yahoo....	\$2b\$10\$JkaDpy8R4GXdbGSeHtzveZtG8lDlwnOj...	NULL	NULL	2021-05-14 00:33:36	2021-05-14 00:33:36
c2432037-8351-418d-b58c-b67af07614f9	test5	test5@mail.com	\$2b\$10\$.P0qtgFsrUaPusrAePjXt.L8M8nM1gPe5I...	NULL	NULL	2021-05-13 20:46:59	2021-05-13 20:46:59
d381f3af-a98f-489f-a38a-940d9a42eb1d	water60	bobwater@yahoo.com	\$2b\$10\$7R7P2w5.LKmbtcoCPqzkyQQREUISTI...	NULL	NULL	2021-05-13 20:25:15	2021-05-13 20:25:15

## **6) Self-check: Adherence to original Non-functional specs**

<b>1) System Requirements</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Minimum specs: Windows 10 or later/ MacOS 10.15 or later, 8GB of RAM, Intel-core i5 or above/ Ryzen 5 or above	Changed because we do not have a machine that matched minimum specs, therefore we could not test it, <b>requirement changed</b>	<b>DONE</b>
Recommended specs: 8GB of RAM, Intel-core i5 or above/ Ryzen 5 or above	Changed because minimum specs were changed, <b>requirement changed</b>	<b>DONE</b>

<b>2) Storage</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Document shall only be stored with signed-up account	Implementation for file upload in progress	<b>ON TRACK</b>
Document size shall not exceed 10MB	Still working on getting the route for uploading document Changed from 5mb to 10mb, <b>requirement changed</b>	<b>ON TRACK</b>
Image and thumbnail uploads shall not exceed 5MB	Changed from 1mb to 5mb, <b>requirement changed</b>	<b>DONE</b>

<b>3) Security</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Personal documents uploaded shall be protected from other users' access	Implementation for file upload in progress	<b>ON TRACK</b>
Personal documents uploaded shall be protected from ransomware	Hard to do, <b>requirement dropped</b>	<b>ISSUE</b>
All users will be validated for their email address	None	<b>ON TRACK</b>
Personal documents and images shall be stored in S3 Buckets	None	<b>ON TRACK</b>
Passwords for all users shall be encrypted	Password encryption in progress, <b>requirement added</b>	<b>DONE</b>
Personal information shall comply under Docupaxx's regulations	Hard to implement in time, <b>requirement dropped</b>	<b>ISSUE</b>
Personal documents shall comply under Docupaxx's regulations	Hard to implement in time, <b>requirement dropped</b>	<b>ISSUE</b>
Access permissions shall only be changed by system's admin	Admins won't have the capability to do so and because of authentication, <b>requirement dropped</b>	<b>ISSUE</b>



Entry Forms are validated	Entry Forms in progress, <b>requirement added</b>	<b>ON TRACK</b>
Contact Forms are validated	Contact Forms in progress, <b>requirement added</b>	<b>ON TRACK</b>
Internal Website Forms are validated	Validation Implementation in progress, <b>requirement added</b>	<b>ON TRACK</b>
Login shall require user name/email and password	None	<b>DONE</b>
Password needs to have at least one special character	Implementation for character type existence requirement in progress	<b>ON TRACK</b>
Password needs to have at least one numeric character	Implementation for character type existence requirement in progress	<b>ON TRACK</b>
Password needs to satisfy the length of at least 8 characters	Changed from 10 characters to 8 characters, <b>requirement changed</b>	<b>DONE</b>
Inactivity timeouts shall be activated 30 minutes after an inactivity countdown	No time for implementation and probably unnecessary, <b>requirement dropped</b>	<b>ON TRACK</b>
Inactivity countdown shall be activated if there is no interaction after 15 minutes	No time for implementation and hard to test, <b>requirement dropped</b>	<b>ISSUE</b>
All communications in application shall be encrypted	Very difficult and impossible to do, <b>requirement dropped</b>	<b>ISSUE</b>

<b>4) Marketing</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Logo of company shall be displayed in every page of the website	Logo formation in progress	<b>ON TRACK</b>
Name/Logo of the company shall be on any platform of social media	Not priority 1, <b>requirement dropped</b>	<b>ISSUE</b>

<b>5) Content</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Information about required documents shall be visible and accessible by user	None	<b>DONE</b>
Website shall have quick search bar to find organizations	None	<b>DONE</b>

About Us info shall be available	None	<b>DONE</b>
Uploaded documents shall be able to access by user owner	Implementation for file upload in progress	<b>ON TRACK</b>
Ability to review and change user information shall be available under user profile	Not a non-functional requirement nor priority 1, <b>requirement dropped</b>	<b>ISSUE</b>
Website shall provide company's information under FAQ	None	<b>DONE</b>
Website shall state refund policy on the bottom of each page	Team decided to not have the requirement as part of all pages, <b>requirement dropped</b>	<b>ISSUE</b>
Website shall state privacy policy on the bottom of each page	Team decided not to link the page at the bottom of the page, <b>requirement dropped</b>	<b>ISSUE</b>
Company contact information option shall be available on the bottom of each page	None	<b>DONE</b>

Company contact information option shall be available on the bottom of each page	None	<b>DONE</b>
Live chat between user and customer service department shall be available in each page	Priority 2, <b>requirement dropped</b>	<b>ISSUE</b>
Ability to submit a request shall be available on the bottom of each page	The team decided to not have this ability for the each page, <b>requirement dropped</b>	<b>ISSUE</b>
Ability to contact the company directly from the Contact Us shall be available	Changed the context to match what we planned to do and implementation is still in progress, <b>requirement changed</b>	<b>ON TRACK</b>

<b>6) Compatibility</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Website shall be compatible with Google Chrome version 90.0	Changed to a more recent and testable version of the browser	<b>DONE</b>
Website shall be compatible with Firefox version 88.0	Changed to a more recent and testable version of the browser	<b>DONE</b>

Website shall be compatible with Safari version 13.0	Changed to a more recent and testable version of the browser	<b>DONE</b>
Website shall be compatible with iOS	None	<b>DONE</b>
Website shall be compatible with Android	Will test before the Milestone	<b>ON TRACK</b>

<b>7) Privacy</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Personal documents shall be uploaded to the Website	Implementation for file upload in progress	<b>ON TRACK</b>
Personal documents shall only be managed by user account (meaning nobody can access except the owner)	Implementation for file upload in progress	<b>ON TRACK</b>
Personal documents shall be uploaded by user with signed-up account	Implementation for file upload in progress	<b>ON TRACK</b>
Required documents from different organizations shall be check marked only when user already have that documents uploaded in their account	Will take too long to implement, <b>requirement dropped</b>	<b>ISSUE</b>

Personal documents shall be uploaded by user with stable internet connection to prevent data leak or any error	Very difficult to test, <b>requirement dropped</b>	<b>ISSUE</b>
Data shall be deleted if documents are half uploaded	Difficult to tell if the document is half uploaded, <b>requirement dropped</b>	<b>ISSUE</b>

<b>8) Reliability</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Required documents shall be up-to-date with each organization's information	No way to guarantee the organization will keep up-to-date, <b>requirement dropped</b>	<b>ISSUE</b>
Required documents shall be translated for non-English users	Translation is priority 3, <b>requirement dropped</b>	<b>ISSUE</b>

<b>9) Usability</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Information from specific organization shall be viewed after being searched	None	<b>DONE</b>

Specific required documents shall be verified once user has uploaded their documents	Documents will not be verified, <b>requirement dropped</b>	<b>ISSUE</b>
User interface shall be in simple and clean design	None	<b>DONE</b>
User interface shall be straightforward	None	<b>DONE</b>
User interface shall allow users for easy access to find what they want to look for	None	<b>DONE</b>
If accessed on computer, system shall require necessary hardware like mouse and keyboard	None	<b>DONE</b>
If accessed on phone, system shall require virtual keyboard	None	<b>DONE</b>
Spellings shall be precise in order to access information	None	<b>DONE</b>

<b>10) Performance</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>

System shall result information after search within certain speed (.1ms)	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>
Personal data shall be accessed after user login within certain speed (.1ms)	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>
Browser refresh times shall not take longer than 2s	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>
System shall detect uploaded documents within a certain amount of time	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>
Query shall take no longer than 1s	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>

<b>11) Portability</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>



Website shall be accessible on a Computer	None	<b>DONE</b>
Website shall be accessible on a Laptop	None	<b>DONE</b>
Website shall be accessible on a Smartphone	None, <b>requirement added</b>	<b>DONE</b>
Website shall be accessible on an iPad	None, <b>requirement added</b>	<b>DONE</b>
Website shall be accessible from a browser	None	<b>DONE</b>

<b>12) Capacity</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Document shall be uploaded one at a time by an Individual User	In progress	<b>ON TRACK</b>
System shall handle next document after finished storing the previous one	Team decided to not implement it, <b>requirement dropped</b>	<b>ISSUE</b>
System may handle more than one file at a time in the future	Team decided to not implement it, <b>requirement dropped</b>	<b>ISSUE</b>

System shall be able to handle multiple users at a time	Changed from a quantifiable number to “multiple” due to testing difficulties, <b>requirement changed</b>	<b>DONE</b>
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<b>13) Maintainability</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
System shall apply coding standards	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>
System shall maintain best practices	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>
System shall follow design standards	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>

<b>14) Recoverability</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>

Recovery process shall take no longer than 24 hours	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>
Backup frequencies shall be executed every month	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>

<b>15) Availability</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Technical supports shall be available 24/7	We aren't available 24/7, <b>requirement dropped</b>	<b>ISSUE</b>
Website maintenance message shall be stated on top of the main page 48 hours prior	May not be available, <b>requirement dropped</b>	<b>ISSUE</b>
Technical supports shall be available in certain amount of hours during holiday	Not going to be a available, <b>requirement dropped</b>	<b>ISSUE</b>
Connection requirement shall be considered stable at 15mbps or above	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>
Upload speed shall be considered functional at 1mbps or above	Our team does not have the knowledge to test the requirement, <b>requirement dropped</b>	<b>ISSUE</b>

<b>16) Audit</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
System must maintain full traceability of information from organizations	Our team does not know how to test audit, <b>requirement dropped</b>	<b>ISSUE</b>
Required documents shall require audit properly	Our team does not know how to test audit, <b>requirement dropped</b>	<b>ISSUE</b>
A file to upload shall always have a name	Uploading document is in progress	<b>ON TRACK</b>
A file to upload shall take up storage space	Uploading document is in progress	<b>ON TRACK</b>
A file to upload shall satisfy proper extension (PDF...)	Uploading document is in progress	<b>ON TRACK</b>
Unsuccessful attempt to upload shall be recorded by audit performance	Not in priority 1, <b>requirement dropped</b>	<b>ISSUE</b>

Export documents shall always be audited	Our team does not know how to test it, <b>requirement dropped</b>	<b>ISSUE</b>
Import documents shall always be audited	Our team does not know how to test it, <b>requirement dropped</b>	<b>ISSUE</b>
Privacy of user information shall always be audited	Our team does not know how to test it, <b>requirement dropped</b>	<b>ISSUE</b>

<b>17) Coding Standards</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Code shall be easily understandable and readable	Will eventually be done by the time project due	<b>ON TRACK</b>
Code shall have a consistent format for maintenance	Will eventually be done by the time project due	<b>ON TRACK</b>
Code shall be neat and well-formatted	Will eventually be done by the time project due	<b>ON TRACK</b>
Name of functions shall perform accordingly to what they do	Will eventually be done by the time project due	<b>ON TRACK</b>

Variables name shall be meaningful	Will eventually be done by the time project due	<b>ON TRACK</b>
Variable names shall be in camel-case	Will eventually be done by the time project due	<b>ON TRACK</b>
Code shall have proper data encapsulation	Will eventually be done by the time project due	<b>ON TRACK</b>
Deep nesting structure shall be avoided	Vague requirement for “deep” and deeper nesting may be adequate in specific situations, <b>requirement dropped</b>	<b>ISSUE</b>
Commenting on obvious things shall be avoided	Will eventually be done by the time project due	<b>ON TRACK</b>
Files and folders shall be organized properly	Will eventually be done by the time project due	<b>ON TRACK</b>
No file is difficult to navigate	None	<b>ON TRACK</b>
No function is difficult to navigate	None	<b>ON TRACK</b>
Every file is in a logical place	None	<b>ON TRACK</b>
Every function is in a logical place	None	<b>ON TRACK</b>

18) Look and Feel		
Requirement	Issue / Reason for Change	Status
User interface shall have engaging and pleasing look	None	<b>DONE</b>
User interface shall be in consistent font, colors.	None	<b>DONE</b>
User interface shall look professional, and functional	Will eventually be done by the time project due	<b>ON TRACK</b>
Website's personality shall match the attitude of the company's business	None	<b>DONE</b>
Website's content shall be straightforward for user to find	Will eventually be done by the time project due	<b>ON TRACK</b>
Interaction between user and the website shall be smooth	Changed wording of requirement, <b>requirement changed</b>	<b>DONE</b>

19) Deployment		
Requirement	Issue / Reason for Change	Status

Proper functioning shall be verified during development process	Will eventually be done by the time project due	<b>ON TRACK</b>
All related code shall be collected before deployment process with resources, libraries	Will eventually be done by the time project due	<b>ON TRACK</b>
Host server shall be tested and configured before use	Will eventually be done by the time project due	<b>ON TRACK</b>
The system shall be tested multiple times on the test server before use	Will eventually be done by the time project due	<b>ON TRACK</b>
Revision shall be done to check for errors and bugs.	Will eventually be done by the time project due	<b>ON TRACK</b>
Testing for bugs, errors shall be done on live server to ensure the best user experience	Will eventually be done by the time project due	<b>ON TRACK</b>

<b>20) Networks</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>



Connection shall be able to operate properly so that computers can send and receive signals	We will be able to test it by the time project due	<b>ON TRACK</b>
Computers on networks shall provide a service or services	Vague requirement, <b>requirement dropped</b>	<b>ISSUE</b>
Computers on networks shall be able to use the service	We will be able to test it by the time project due	<b>ON TRACK</b>
Network shall be fault-tolerant (refreshes if a client loses connection)	Our team does not know how to test it, <b>requirement dropped</b>	<b>ISSUE</b>
Network shall be scalable within Amazon Web Services load	None	<b>DONE</b>
Network congestions shall be reduced with efficient algorithms	Our team does not know how to test it, <b>requirement dropped</b>	<b>ISSUE</b>
Network security policies have no loopholes	Cannot guarantee the action, <b>requirement dropped</b>	<b>ISSUE</b>

<b>21) Database</b>		
<b>Requirement</b>	<b>Issue / Reason for Change</b>	<b>Status</b>
Database shall support MySQL 8.0.23	None	<b>DONE</b>
Database shall be backed up every 24 hour	Happens too frequent, <b>requirement dropped</b>	<b>ISSUE</b>
Database shall store passwords in encrypted format	Password Encryption in progress	<b>DONE</b>
Database shall store only the paths to the files in the system	File Uploading Implementation In progress	<b>ON TRACK</b>
Modified data in database shall be updated within 5 seconds for access	Cannot guarantee, <b>requirement dropped</b>	<b>ISSUE</b>
Data consistency shall be ensured to prevent database error	Data Consistency Check Implementation In progress	<b>ON TRACK</b>
Data integrity shall be maintained for every database query made on the website	Data Integrity Check Implementation In progress	<b>ON TRACK</b>
Database shall have user ID according to user as primary key	DB Requirement, <b>requirement dropped</b>	<b>ISSUE</b>

Database actions shall be only accessible by admins	DB Requirement, <b>requirement dropped</b>	<b>ISSUE</b>
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**7) list of contributions to the document (in detail). This section must be done by the team lead**

Member	Role	Contributions
Kyle	Team Lead Github Master	<u>Documentation:</u> Product Summary (Worked as a Team in Team Meeting) Product Summary (Review) Usability Tests (Review) QA Tests (Helped with Managing) QA Tests (Review) Code Review (Review) Self-Check on Security Practices (Checked for Security Practices) Self-Check on Security Practices (Review) Adherence to Nonfunctional Requirements (Worked as Team in Team Meeting) Adherence to Nonfunctional Requirements (Review) Reviewed Document with the Team  <u>Beta Launch:</u> Organized Frontend Code Somewhat Organized Backend Code Helped with Backend Implementation (Worked as Team including Coding Meetings) Helped with Integrating Backend Work with Frontend Installed and Implemented Sessions Fixed Bugs on Beta Website Wrote Scripts to Help with JS File Text Handling

Can	Front-End Lead	<u>Documentation:</u> Product Summary (Worked as a Team in Team Meeting) Usability Tests (Managed Planning for Set Up) Adherence to Nonfunctional Requirements (Worked as Team in Team Meeting) Self-Check on Security Practices (Review) Adherence to Nonfunctional Requirements (Review) Review Document with the Team  <u>Beta Launch:</u> Configured Website Deployment Staging Fixed Deployment Staging Bugs and Crashes Created UI Organization Image Upload Button
Amron	Back-End Lead	<u>Documentation:</u> Product Summary (Worked as a Team in Team Meeting) Product Summary (Review) QA Tests (Managed Setup) QA Tests (Review) Code Review (Review & Performed Code Review & Put Code for Code Review) Self-Check on Security Practices (Review) Adherence to Nonfunctional Requirements (Worked as Team in Team Meeting) Adherence to Nonfunctional Requirements (Review) Reviewed Document with the Team Appended Code Review  <u>Beta Launch:</u> Helped Implementation Real Backend (Worked as Team including Coding Meetings) Tested Frontend with Integration for Backend Code Made a List of our Backend Endpoints (for management) Fixed Database Tables for Implementing Real Backend for Beta Launch Fixed Bugs in Beta Development

Vi		<p><u>Documentation:</u>  Product Summary (Worked as a Team in Team Meeting)  Product Summary (Review)  Usability Test (Review)  QA Tests (Setup Tests)  QA Tests (Review)  Code Review (Review)  Self-Check on Security Practices (Review)  Adherence to Nonfunctional Requirements (Worked as Team in Team Meeting)  Adherence to Nonfunctional Requirements (Review)  Helped send a Screenshot of Form Validation on Security practices (was replaced)</p> <p><u>Beta Launch:</u>  Helped Implementation Real Backend (Worked as Team including Coding Meetings)  Tested Frontend with Integration for Backend Code Installed and Implemented Password Encryption on own Branch  Installed and Implemented S3 Buckets and File Uploading Functionality</p>
Anna		<p><u>Documentation:</u>  Product Summary (Worked as a Team in Team Meeting)  Product Summary (Review)  Usability Tests (Setup)  Usability Tests (Had Boyfriend Test)  QA Test (Review)  Code Review (Review)  Self-Check on Security Practices (Review)  Adherence to Nonfunctional Requirements (Worked as Team in Team Meeting)  Adherence to Nonfunctional Requirements (Review)  Reviewed Usability Test Instructions  Reviewed Document with Team</p> <p><u>Beta Launch</u>  Wrote Most of Backend Validation Request Code for Checking for Duplicate Usernames</p>

Rodrigo		<p><u>Documentation:</u>  Product Summary (Worked as a Team in Team Meeting)  Product Summary (Review)  Usability Tests (Setup Description)  Usability Tests (Had Family Member Test)  Product Summary (Worked as a Team in Team Meeting)  Adherence to Nonfunctional Requirements (Review)  Wrote Descriptions for Extra Usability Test Cases  Wrote Test Taking Docs for Testers to Fill Out  Reviewed the Document with the Team</p> <p><u>Beta Launch:</u>  Installed Email API in his Own Branch  Worked on Fixing Bugs for the Email API &amp; Worked on Contact Us Page Frontend in own Branch</p>
Janson		<p><u>Documentation:</u>  Product Summary (Worked as a Team in Team Meeting)  Product Summary (Review)  QA Tests (Setup)  QA Test (Review)  Code Review (Auctioned Code for Code Review)  Code Review (Review)  Self-Check on Security Practices (Review)  Adherence to Nonfunctional Requirements (Worked as Team in Team Meeting)  Adherence to Nonfunctional Requirements (Review)  Worked on QA Tests (Performing)  Reviewed Document as a Team  Helped send a Screenshots for Security Practices</p> <p><u>Beta Launch:</u>  Helped Implementation Real Backend (Worked as Team including Coding Meetings)  Tested Frontend with Integration for Backend Code  Worked on Backend APIs for User, Packages, and Documents</p>

		Worked on Organization AR deletion API
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