

Assignment 2: Software Requirements Specification

Team: Flip Book Team

Project Title: Flip Book

Members:

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Meetings dates	Participants
01/23/2020	William, Ayah, Vinny, Hafsa, Nitisha
01/27/2020	William, Ayah, Vinny, Hafsa, Nitisha

Stakeholders	Requirements
End users	FR1. Register/Sign in UI FR11. Contact Business NFR1. Allowing only Wayne email addresses to register NFR5. Requiring a user to answer a security question when registering

Registered end users	FR3. Logging into Flip Book FR3.a. Log In: Validation of Email Address FR3.b. Log In: Validation of Password FR3.c. Logging into Flip Book: Forgot password FR3.d. Logging into Flip Book: Change password FR4. Present a logged-in user with the main listings UI FR15. About Page
Registered end users (sellers)	FR5. Posting textbooks FR13. Table of seller listings
Registered end users (buyers)	FR6. Search bar FR6.a. Category filter FR7. Checkout UI FR8. Cart tracker FR10. Contact seller FR12. Book details FR14. Remove a book from cart

Unregistered end users	FR2. Signing up for Flip Book FR2.a. Sign Up: Email validation FR2.b. Sign Up: Password Validation NFR3. Users who are not registered will not be able to access the main Flip Book UI
System Administrator	FR8. Password security FR9. Remove listings NFR1. Allowing only verified Wayne State Email Addresses NFR2. Disclosing personal information NFR3. Users who are not registered will not be able to access the main Flip Book UI NFR4. Hiding passwords when creating an account and when logging in

Functional Requirements

FR1. Register/Sign in UI

Goal: The website will present the user with a register/sign up user interface where users can either register if they are first time users, or log into their existing account.

Stakeholders: End users

Upon visiting the website, user will be presented with a user interface where they can either choose to register for Flip Book if they are first time users, or they can log into their existing account. These two options will be on the same page (registration on one side, log-in on the other). Users will not be able to proceed to the main website to search for books until they either go through the registration process, or they log into their account. This page will also present users with Flip Book's mission statement and the features that are offered.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/23/2020

Priority: 1

FR2. Signing up for Flip Book

Goal: The user will need to create a Flip Book account by filling out a registration form.

Stakeholders: Unregistered end users

When a student wants to use the website for the first time, they will be asked to either sign in or sign up. If this is the user's first time using the website, they will need to sign up. The website will take the student to a registration form where they will be asked to input their first and last name, a Wayne State email address, security answer to a security question, and a password. The user can then submit their information so the account can be created. If any of the required fields are not filled out, the website will notify the user to fill them out before proceeding.

Alternate scenario 1: If the user does not enter an email ending in "wayne.edu" then there will be an error and they will be prompted to re-enter a wayne.edu email.

Alternate scenario 2: If the password entered does not match the requirements specified in FR2.b. then there will be an error and the user will be prompted again for a valid password.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/23/2020

Priority: 1

FR2.a. Sign Up: Email Validation

Goal: The system shall validate that the email entered by the user is a Wayne State email

Stakeholders: System Administrator

When the student enters an email address into the email input text field, the system will use string matching to confirm that the email address ends in “@wayne.edu”.

Alternate scenario 1: If the user does not enter a wayne email, they will not be able to proceed with the registration process and will be prompted to input a wayne.edu email.

Origin: Team members came up with this requirement for the first presentation

Version: 1.0

Date: 01/27/2020

Priority: 1

FR2.b. Sign Up: Password Validation

Goal: The system shall validate that the student generated password meets our specified security standards.

Stakeholders: End users, system administrators

When the student enters a prospective password choice, they will be required to re-enter the password to confirm that they spelled it correctly.

Alternate scenario 1: If the password re-entered does not match the first password, the user will be notified that the passwords do not match.

Origin: Team members came up with this requirement during the first meeting session.

Version: 1.0

Date: 01/27/2020

Priority: 1

FR3. Logging into Flip Book

Goal: If the user already has a registered account, they will be asked to login with their Wayne State email address and password in order to proceed.

Stakeholders: Registered end users

If the student has already made a Flip Book account, they will be required to login using their Wayne State email address and password. If the information provided by the user is correct, the user will be allowed to proceed. If not, a message will appear notifying the user of the incorrect credentials.

Alternate Scenario 1: If the password does not match the password present in the database, then an error message will be displayed notifying the user that the account does not exist. As a result, the user will not be able to log in and use the services.

Alternate Scenario 2: If the email address does not match the email address present in the database, then an error message will be displayed notifying the user that the account does not exist. As a result, the user will not be able to log in and use the services.

Alternate Scenario 3: If the password and the email address do not match the password and email address present in the database, then an error message will be displayed notifying the user that the account does not exist. As a result, the user will not be able to log in and use the services.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/23/2020

Priority: 1

FR3.a. Log In: Validation of Email Address

Goal: The user's email address will be securely checked if the email is a correct match to the email address in the database.

Stakeholders: Registered end users

After the user has successfully created an account with FlipBook using their Wayne State email address, the user may try to log into their account. When a user tries to log in using their Wayne State email address, the email will be checked against all the existing email address entries in the database to make sure they exist to provide for a smooth log in process. After the user is able to log in, they will be able to access the services that FlipBook offers.

Origin: The thought process for this functional requirement originated during the first team meeting by the team members since this feature lays the foundation for users to be able to fully utilize the services of FlipBook.

Version: 1.0

Date: 01/27/2020

Priority: 1

FR3.b. Log In: Validation of Password

Goal: The user's password will be securely checked if the password they have typed in matches correctly to the password in the database.

Stakeholders: Registered end users

After the user has successfully created an account with FlipBook using their Wayne State email address, the user may try to log into their account. When a user tries to log in using the password they created during the initial registration process, it will be checked against the password that corresponds to the email address which was inputted by the user. If the password is a correct match to the password in the database, the user will be able to access the services that FlipBook offers. If not, the user will be notified that the account does not exist.

Origin: The thought process for this functional requirement originated during the first team meeting by the team members since this feature lays the foundation for users to be able to fully utilize the services of FlipBook.

Version: 1.0

Date: 01/27/2020

Priority: 1

FR3.c. Logging into Flip Book: Forgot password

Goal: If the user already has a registered account, but they forgot the password to their account, they have the option to sign in with their answer to the security question that they have provided during the initial registration process.

Stakeholders: Registered end users

If the student has already made a Flip Book account, they will be required to login using their Wayne State email address and password. If the student forgot their password, they can select the “Forgot password” button. They will then be taken to a page where they can sign into their account using their security answer. Once the user signs in successfully, they can change their password by going to their profile page.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/23/2020

Priority: 1

FR3.d. Logging into Flip Book: Change password

Goal: If the user already has a registered account, but they forgot the password to their account or would just like to change it for any reason, they have the option to change their password under thei

Stakeholders: Registered end users

If the student has already made a Flip Book account, they will be able to login and go to their profile page. Under the profile page, there will be an option for the user to change their password. The user will be prompted to enter their new password, and then re-enter it to confirm.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/23/2020

Priority: 1

FR4. Present a logged-in user with the main listings UI

Goal: Once the user logs into their account successfully, they will be presented with the main UI where they can search for books.

Stakeholders: Registered end users

Once the user logs into their Flip Book account, they will be taken to the main page where they will be allowed to search for textbooks. This UI will allow users to search for books using the search bar, search using the categories filter that will be found on the side, visit the 'About' and 'Contact' pages that will be on the navigation, click on textbook listings and add books to their car, go to their cart, and go to their account profile.

Alternate Scenario 1: If the user isn't able to log in properly then this screen will not be visible to the user and they will not be able to access the Flip Book features.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/23/2020

Priority: 1

FR5. Posting textbooks

Goal: End users can post listings of their unneeded textbooks for other End users to buy.

Stakeholders: Registered end users (sellers)

End users can post listings of the textbooks they do not need for other End users to buy. They can post a picture of the book's cover, the title, author, add tags, the ISBN, subject, class number, and edition.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/26/2020

Priority: 1

FR6. Search bar

Goal: The user will be able to search for specified results

Stakeholders: Registered end users (buyers)

End users can use this text entry search tool to find specified textbooks. They can search by title, author, subject, isbn, or other tags, making it easier and faster for users to find their book.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/26/2020

Priority: 1

FR6.a Category filter

Goal: The user will be able to search for books using a category/subject filter

Stakeholders: Registered end users (buyers)

To reduce time wasted in navigating the site, end users can narrow their search to increase efficiency and performance. The student will be able to narrow results by using the category filter. The user can select the subject of the book, and all results will be displayed for that selected category.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/26/2020

Priority: 2

FR7. Checkout UI

Goal: The system will allow the student to purchase textbooks.

Stakeholders: Registered end users (buyers)

The student can place books into an online cart. The checkout will allow End users to purchase more than one textbook and confirm their orders prior to fulfillment. They will also be able to contact the seller from this page.

Origin: This feature was created in the initial planning during the first meeting.

Version: 1.0

Date: 01/26/2020

Priority: 1

FR8. Cart tracker

Goal: A buyer cannot add the same book to their cart twice

Stakeholders: Registered end users (buyers)

Since the website is a marketplace and not a warehouse, there is only one product available per listing, so you cannot have more than 1 of a specific listing in your cart. However, there may be multiple listings with the same book. To help users keep track of which book they already have in their cart, once they add a book to their cart, they cannot add that specific listing again (they can still add the same book from another listing).

Origin: Team members came up with this requirement during the first meeting session.

Version: 1.0

Date: 01/27/2020

Priority: 1

FR9. Remove listings

Goal: Confirmed purchases by the seller and buyer will be removed from the site.

Stakeholders: System administrators

Once the student has received the book they purchased, the listing of that book will be deleted. This will be executed when both the seller and the buyer confirm that the transaction has been successfully completed. The confirmation will be a button on the website that both parties will have to press.

Origin: Team members came up with this requirement for the first presentation.

Version: 1.0

Date: 01/27/2020

Priority: 1

FR10. Contact seller

Goal: The system shall allow the buyer and seller to contact each other through email messages.

Stakeholders: Registered end users

On the checkout page, there will be a button where a prospective buyer can send a message to the seller regarding their interest in buying their book. The message will be sent to the seller's email address. The seller and buyer can then maintain email correspondence through email if necessary.

Origin: Team members came up with this requirement for the first presentation.

Version: 1.0

Date: 01/27/2020

Priority: 2

FR11. Contact Business

Goal: Users will be able to contact the company for any issues they run into regarding the functionalities of the website, or if they have any general questions.

Stakeholders: End users

Flip Book's "Contact Us" page will display a user entry form which must be filled out to submit an inquiry. Text fields including first and last name, email, and their message must be inputted correctly to be able to successfully submit the form. Additionally, the form will alert users of invalid entries when fields are left blank or contain an improper email address. Questions and concerns will then be taken into account by the company to update software for maximum user satisfaction.

Alternate Scenario 1: If a user does not fill out the First name field, the form will display an error asking them to complete the field.

Alternate Scenario 2: If a user does not fill out the Last name field, the form will display an error asking them to complete the field.

Alternate Scenario 3: If a user does not fill out the email field, the form will display an error asking them to complete the field.

Alternate Scenario 4: If a user does not fill out a valid email address ending in @wayne.edu, the form will display an error asking them to correct the error.

Alternate Scenario 5: If a user does not fill out the description box, the form will display an error asking them to correct the error.

Alternate Scenario 6: If a user fails to fill out any or all of the required fields, the form will display an error asking them to correct the error.

Origin: Team members came up with this requirement during the first meeting session.

Version: 1.0

Date: 01/27/2020

Priority: 2

FR12. Book details

Goal: To display all information for a specific listing once the buyer clicks on the listing

Stakeholders: Registered end users (buyers)

The users will have access to a large quantity of books posted by their peers and faculty members. When searching for a book, the search results will only display some of the information of that book. The user can click on the book they want, which will redirect them to a page where they can see all the details that the seller has provided about that book. They will also be able to add the book to their cart from this page.

Origin: The thought process for this functional requirement originated during the first team meeting by the team members.

Version: 1.0

Date: 01/27/2020

Priority:2

FR13. Table of seller listings

Goal: A seller can keep track of their listings through their “My listings” page found on their profile.

Stakeholders: Registered end users (sellers)

In order to help keep track of the seller’s listings, the “My listings” page will display a table with all the listings for that seller that are still on the Flip Book website (have not been purchased). They can also confirm that the transaction process for a specific listing has taken place. A listing with a completed transaction process will not show up on this listings page, as it will be removed from Flip Book’s site.

Origin: Team members came up with this requirement during the first meeting session.

Version: 1.0

Date: 01/27/2020

Priority: 1

FR14. Remove a book from cart

Goal: If the user will have the option to remove a book from their cart

Stakeholders: Registered end users (buyers)

If a user is no longer interested in a book that they have in their cart, they can use the “remove book” button to simply remove the book from their cart so that they only have the books they are interested in within their cart.

Origin: Team members came up with this requirement during the first meeting session.

Version: 1.0

Date: 01/27/2020

Priority: 1

FR15. About Page

Goal: The goal is to provide users and prospective users background information about the values of FlipBook and a detailed description about the services provided by FlipBook.

Stakeholders: End users

The users have access to read about the origins of FlipBook and to fully understand the values and mission statements of FlipBook. The page will also contain a detailed description of the services provided to users in both perspectives: buyer and seller. This page will be beneficial to the users to answer any questions they might have about the services.

Origin: The thought process for this functional requirement originated during the first team meeting by the team members since this feature helps users understand the values and services provided by FlipBook.

Version: 1.0

Date: 01/27/2020

Priority:2

Non-Functional Requirements

NFR1. Allowing only Wayne email addresses to register

Goal: The goal for this non-functional requirement is to provide security for the users by minimizing the presence of users with unknown origin and protect the buyers and sellers, which are Wayne State End users and faculty, from unknown users with unknown intent.

Stakeholders: Registered end users

When the prospective users are looking to sign up for an account with FlipBook, they must have a Wayne State email address. This email address must end in "wayne.edu." If the system does not detect that the email entered matches that requirement, the user will not be able to register in order to provide security to the community of faculty and End users from users with unknown origin.

Origin: Team members came up with this requirement for the first presentation.

Version: 1.0

Date: 01/27/2020

Priority: 1

NFR2. Disclosing personal information

Goal: The website will not disclose any personal information from any seller or buyer without the user's permission

Stakeholders: System administrators

For the purposes of privacy and security, Flip Book will not disclose any users' personal information 1 to any other user or third parties without the user's permission. The only exception to this is the seller's email address that buyers will have access to in order to contact the seller about their book listing.

Origin: Team members came up with this requirement for the first presentation.

Version: 1.0

Date: 01/27/2020

Priority: 1

NFR3. Users who are not registered will not be able to access the main Flip Book UI

Goal: Only registered users will be able to access the main site.

Stakeholders: Unregistered end users

Users who are not registered for Flip Book will not be able to access the main Flip Book UI where they can see the book listings and interact with the website. They will only be able to access the registration/login page.

Origin: The thought process for this functional requirement originated during the first team meeting by the team members since this feature allows sellers the freedom of modifying their listing to their own liking without the manipulation of any other user.

Version: 1.0

Date: 01/27/2020

Priority: 1

NFR4. Hiding passwords when creating an account and when logging in

Goal: When entering passwords, the characters will be replaced by asterisks in order to preserve the privacy of the user and the security of their account.

Stakeholders: System administrators

When the user is inputting their password, the characters within the text box will be replaced with asterisks. This will ensure the privacy of the user as well as the security of their account.

Origin: Team members came up with this requirement for the first presentation.

Version: 1.0

Date: 01/27/2020

Priority: 1

NFR5. Requiring a user to answer a security question when registering

Goal: User will be required to enter an answer for a security question when registering for security purposes

Stakeholders: End users

When registering for an account with Flip Book, each user will be required to answer a security question. If the case arises that the registered user forgot their password, they will be required to enter the answer to their security question in order to log in.

Origin: The thought process for this functional requirement originated during the first team meeting by the team members.

Version: 1.0

Date: 01/27/2020

Priority: 1