

# User Requirements Document

By Suhaimi Chan  
December 28, 2020

US #	User Stories
1	As a reader, I want to be able to browse list by title, author, genre, rating or comprehension level so that I can see a list of books that I am interested to read
2	As a reader, I want to be able to search based on keywords that matches all fields (title, author, genre, rating, comprehension level) so that I can quickly find the books that I am interested to read
3	As a reader, I want to have a voice messaging system with my peer so that I can communicate with my peer for peer reading activity
4	As a reader, I want to have a friend list so that I can read the books together with my friends/peers
5	As a reader, I want to be able to create an account so that I can log in/out, reset password, create a profile, friend, history and favorite list, track my progress
6	As a reader, I want to browse list of books with book covers so that I can choose books that I am interested in by the covers and titles
7	As a reader, I want to be able to take a reading comprehension quiz with voice recording and multiple choice questions so that my answers can be evaluated more accurately and I can track my progress
8	As an evaluator, I want to be able to evaluate and give a score on reading comprehension quiz so that the readers can track their progress
9	As a reader, I want to be able to pause and play like e-reader so that I can continue reading my books when I am ready to read again
10	As a parent, I want to be able to see what my child reads using bluetooth connection to display same content on multiple devices so that I can monitor progress and help when needed
11	As a developer, I want to create the application for tablet (ipad only for now) and restrict download for tablet only so that reader has best experience using tablet
12	As a reader, I want to be able to read in one full page in portrait mode so that I can read easier and easy on my eyes

13	As a reader, I want to be able to read in two full page in landscape mode so that I can follow the story easier and review what I just read easily
14	As a reader, I want to see an animation when page is flipped over so that I feel like reading a real book
15	As a reader, I want to be able to browse/search when I have no wifi connection so that I can still check what I am interested to read when offline
16	As a reader, I want to be able to continue read when not connected to the internet once I have select/save the book so that I can read anywhere and I don't have to rely on internet connection
17	As a reader, I want to have a favorite list so that I can read it in the future
18	As a reader, I want to have a history list so that I can track what I have read
19	As a reader, I want to be able to delete my favorite/history list with reversible function so that I can remove books that I am no longer interested to read and save my tablet space
20	As a reader, I want to have a word definition when a text is highlighted so that I can better understand and continue reading the book with better comprehension
21	As a reader, I want to be able to adjust font size of the text and line spacing in the books so that I can read better
22	As a reader, I want to be able to sort the list by title, author or genre so that I can quickly find the books that I am interested to read
23	As a reader, I want to be able to read books using my tablet so that I can read the books anywhere I go
24	As a reader, I want to receive a recommendation list of books to read based on my interest and comprehension level so that I can read books that interest me
25	As a reader, I want to read books with off-white background so that It does not strain my eyes and I can read before going to bed without any health issues
26	As a reader, I want to be able to rate the books that I read so that I can give my opinion for other readers
27	As a reader, I want to be able to take the comprehension tests/quizzes periodically and automatically so that I can track my progress more accurately
28	As a reader, I want to be able to share the book titles in my favorite/history list to my friend list so that they can also read the books or give comments/feedback about the books
29	As a reader, I want to be able to create/update my profile with nickname so that I can protect my privacy

30	As a reader, I want to be able to add/remove user list in my friend list so that I can keep my friend list updated
31	As a reader, I want to receive recommendation/suggestion of users that read the same books recently so that we can be friends and help each other thru peer reading
32	As a reader, I want to have a preference list like font size and line spacing (along with ability to update my preference) so that I can easily read any books automatically adjusted to my preference

# Risk Management Plan

By Suhaimi Chan  
December 31, 2020

Risk ID	Risk Description	Likelihood	Impact	Category	Risk Indicators	Contingency / Action Plan
1	Voice Recognition not working	Medium	High	2	No voice recognition for grading. It takes too long to develop.	Check with the client if voice recognition is necessary. Alternatively provide multiple choice quizzes. Hire an external developer specialized in the technology.
2	Remote Connection not working	Medium	High	2	Readers can not read books offline. It takes too long to develop.	Check with the client if remote connection is necessary. Alternatively have the book downloaded into the reader's app once read online. Hire an external developer specialized in the technology
3	Compatibility issue running different operating system of iOS and Android	High	High	1	Not able to run on a tablet with a different operating system. It takes too long to develop.	Check with the client if they need one or two operating systems before we develop it. Hire an external developer specialized in the technology
4	What if someone is sick	Low	High	3	Delay/Not able to complete the project	Cross train the team members so they can take over the job if one

						member is out. Up to date proper documentation is necessary.
5	Plan Change by COO, Lisa Talbot	High	Medium	2	Scope creep, delay on implementation or release	Work closely with the COO and keep her informed regularly. Educate her the consequences of the changes.
6	Updated Database not working or has glitch	High	High	1	Unable to connect to database or pull title list	Always test and verify the database is working. No changes committed until the database is verified to work properly. Hire an external developer specialized in the technology
7	Voice Messaging not working	Medium	High	2	No peer voice messaging, It takes too long to develop.	Check with the client if this feature is necessary. Alternatively we can provide a chat feature. Hire an external developer specialized in the technology
8	What if someone quits the company	Low	High	3	Delay/Not able to complete the project	Cross train the team members so they can take over the job if one member is out. Up to date proper documentation is necessary. Hire a replacement developer

						specialized in the technology
9	Word definition not working	Medium	High	2	No word definition. It takes too long to develop.	Check with the client if this feature is necessary. Alternatively provide vocabulary definition at the bottom of each page. Hire an external developer specialized in the technology
10	Adjust font size and line spacing not working	Medium	High	2	Unable to adjust font size or line spacing. It takes too long to develop.	Check with the client if this feature is necessary. Alternatively provide a few standard formats to select as default. Hire an external developer specialized in the technology

## Suhaimi Chan Iteration Plan Sprint 1 Feedback

The iteration plan for Sprint 1 looks good. My feedbacks are:

1. The team is cross functional which is good. Each developer is participating in different tasks that involve writing source code, reviewing source code, writing unit test, writing acceptance criteria, writing acceptance test, writing user manual, and writing internal documentation.
2. One user story to be done by multiple developers up front may slow down the project as it takes time to collaborate their work with others, especially on a small story point or simple tasks.
3. The development team should not self-assign all tasks up front. Tasks should be presented on the board. Then each developer can self-assign the tasks that they have most expertise in and are familiar and comfortable with at the start of the day.
4. There are three task dependencies in Sprint 1. They are USID #1 followed by USID #27, USID #24 followed by USID #25, and USID #32 followed by USID #33.
5. USID #24 seems to be missing writing unit test task. We will need writing unit test task for page layout to make sure the functionality works the way it is supposed to be.
6. If there is any big task that takes long hours and is too much to be handled by one developer, peer programming on the task or any collaboration is highly recommended. For examples, estimated 16 hours on writing source code for connecting with remote user (USID #32) or writing unit test for connecting with audio (USID #33)
7. USID #33 has writing unit test for connecting with audio allotted for 16 hours and writing source code for connecting with audio allotted for 0.5 hours which seem to be mixed up. It should not take 16 hours to write unit test for connecting with audio. The development team may need to review and confirm the estimated hours for these tasks.
8. The total hours assigned seem not balanced to the total available hours of each developer. Alexa only has 0.5 hour buffer time, Josh only has 1 hour buffer time, and in the meantime Kat has 4.75 hours buffer time. For a total buffer time of 6.25 hours, each developer should have about 2 hour each of buffer time. So Kat should take a few tasks assigned to herself from both Alexa and Josh. This would help balance the work load of each developer and reduce the potential of developer's work over time if there are any tasks take longer than planned/estimated hours.
9. Anyone should not hesitate to ask for help when he/she encounters any issues/concerns with his/her part. And anyone should be willing to help when asked for help. This will allow us to move forward quickly, not get stuck and slow down the project.

## Suhaimi Chan Iteration Plan Sprint 2 Feedback

1. Task dependencies in Sprint 2 are not mentioned. Task dependencies will help with iteration planning.
2. USID #5 seems to be missing reader determination on how a reader sees the cover of a book while browsing. We will need to determine how a reader sees the cover of a book while browsing.
3. USID #6 seems to be missing reader determination on how a reader selects reading materials. We will need to determine how a reader selects reading materials.
4. Nobody assigned to the following tasks in sprint 2:
  - a. Review source code
  - b. Write acceptance criteria
  - c. Write acceptance tests
5. The total hours for sprint 2 are estimated at 124. Deducting my 6 hour task for executing acceptance tests from total hours will come at 118 developer hours. In the meantime, total developer available hours for sprint 2 are only at 105 hours (Alexa 35 available hours + Josh 40 available hours + Kat 30 available hours). That means discrepancy of 13 hours ( $= 118 - 105$ ) would either be assigned to me or over time for some developers. Otherwise, we are running the risk of not able to complete all user stories in sprint 2 or risk of some user stories not meeting “Done” definition. Another recommendation is we have to remove some user stories to meet developer available hours. That way the developers would not feel too much pressure and/or burn out.
6. Anyone should not hesitate to ask for help when he/she encounters any issues/concerns with his/her part. And anyone should be willing to help when asked for help. This will allow us to move forward quickly, not get stuck and slow down the project.

## Risk Management Plan Sprint 2

By Suhaimi Chan  
January 9, 2021

Risk ID	Risk Description	Likelihood	Impact	Category	Risk Indicators	Contingency / Action Plan
1	Database connection feature not working	Medium	High	2	No database connection. Unable to connect to database. It takes too long to develop.	Create a canned/hard coded connection for other team members to continue working on their features. Test and verify the canned database connection is working. Peer programming. Hire an external developer specialized in database.
2	Save reading materials locally not working	Medium	High	2	Readers can not save reading materials locally. Readers can not read books offline. It takes too long to develop.	Have the book downloaded into the reader's app once read online. Peer programming. Hire an external developer specialized in the technology
3	Bookmark feature not working	Medium	High	2	Not able to bookmark reading materials. It takes too long to develop.	Auto save the page when a reader exits the application until a bookmark feature is fully developed. Peer programming. Hire an external developer specialized in the technology
4	Book cover feature not working	Medium	High	2	Not able to show book cover while browsing. It takes too long to develop.	At least show title, author, and genre. Show a link to see the book cover. Peer programming.

						Hire an external developer specialized in the technology
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## Suhaimi Chan Iteration Plan Sprint 3 Feedback

1. Task dependencies in Sprint 3 are not mentioned. Task dependencies will help with iteration planning.
2. USID #14 and 15 seems to be missing determination on how to add and delete material to the to-read list, respectively. We will need to determine how a reader to add and to delete material to the to-read list.
3. USID #16 and 17 seems to be missing determination on how to add and delete material to the favorite list, respectively. We will need to determine how a reader can add and delete material to the favorite list.
4. USID #38 seems to be missing determination on how to match a reader with a remote reader based on reading level. We will need to determine how a reader will be matched with a remote reader based on reading level.
5. There are more self-assigning and also pair-design/pair-determination with Daniel, Subject Matter Expert in sprint 3, in comparison to the previous sprint
6. Nobody assigned to the following tasks in sprint 3:
  - a. Review source code
  - b. Write acceptance criteria
  - c. Write acceptance tests
7. There is no time allocated for executing unit tests. Executing unit tests will help ensure the functionality of the application works the way it is supposed to be designed for.
8. The total hours for sprint 3 are estimated at 116. Deducting my 5.5 hour task for executing acceptance tests from total hours will come at 110.5 developer hours. In the meantime, total developer available hours for sprint 3 are at 115 hours (Alexa 40 available hours + Josh 40 available hours + Kat 35 available hours). Total estimated developer hours are less than total developer available hours. So this is a good improvement from the previous sprint.
9. Alexa has more assigned hours, almost double than her peers. Alexa has 4 assigned user stories, in the meantime, Josh has one assigned user story and Kat has two assigned user stories. There are three remaining open user stories (not assigned yet). It's probably better to have it balanced, so Alexa will have more available time to help her peers when needed.
10. In the previous retrospective meeting, the team agrees to do more pair programming on major tasks, but it does not seem there is pair programming in this iteration plan. With pair programming, they can eliminate review source code.

11. Some user stories start with determine, some start with design, and some no determine/design at all. It may help if there is consistent use of either determine or design in the beginning of each user story.
12. Anyone should not hesitate to ask for help when he/she encounters any issues/concerns with his/her part. And anyone should be willing to help when asked for help. This will allow us to move forward quickly, not get stuck and slow down the project.



# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



US#	USER STORY NAME
1	As a reader, I want the product to be mobile, so that I can use it anywhere
2	As a reader, I want the application to remotely access the book content, so that the application doesn't require a large amount of memory
3	As a reader, I want to be able to save selected reading material locally to the device, so that I can read without a wireless connection
4	As a reader, I want to be able to browse all available reading material, so that I can choose something to read
5	As a reader, I want to see the covers of the books while I'm browsing through them, so that I can judge a book by its cover
6	As a reader, I want to select reading material, so that I can read it
7	As a reader, I want to be able to sort reading material based on comprehension difficulty or genre
8	As a reader, I want to be able to search for reading material, so that I can find a specific piece of reading material that I have in mind
9	As a reader, I want to be able to rate reading material, so that it can be suggested to other readers
10	As a reader, I want to be able to create an account, so that I can save information about my activity for my reference later
11	As an account holder, I want to be able to log into my account, so that I can access my account
12	As an account holder, I want to be able to reset my password, so that I can increase security
13	As an account holder, I want to be able to browse the reading material that I have previously read, so that I can go back to that content that I really liked
14	As an account holder, I want to be able to add reading material to my To-Read list, so that I can read it later
15	As an account holder, I want to be able to delete reading material from my To-Read list, so that it is no longer found on the list
16	As an account holder, I want to be able to add reading material to my Favorites list, so that I have all my favorite reading material in one place
17	As an account holder, I want to be able to delete reading material from my Favorites list, so that it is no longer found on the list
18	As an account holder, I want material suggested to me based on reading material I have rated positively, so that I can find other books that I will like
19	As an account holder, I want reading material suggested to me based on the other reading material I have read, so that I can easily find new reading material
20	As an account holder, I want to have my reading fluency and reading comprehension level tested, so that I can use it to identify appropriate reading material
21	As an account holder, I want reading material suggested to me based on reading level, so that it is easy to find good reading material
22	As an account holder, I want the application to track my reading fluency and comprehension improvements, so that I can have material updated to my appropriate skill level
23	As a reader, I want the application to support reading fluency through voice recognition, so that the application can test reading fluency consistently and accurately

# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



US#	USER STORY NAME
24	As a reader, I want the view of a page to look close to the fidelity of a page in an actual book, so that its full story impact is maintained regardless of the medium
25	As a reader, I want the background of books to be off-white (as opposed to bright-white), so that I don't strain my eyes when I'm reading
26	As a reader, I want to be able to read material without a partner, so that I can read and practice at my own pace
27	As a reader, I want the application to work in both portrait and landscape orientation, so that I can choose the way I view material
28	As a reader, I want any pictures associated with the content to appear with the text, so that they can supplement the reading material
29	As a reader, I want to be able to adjust font size, so that it is easier to read
30	As a reader, I want pages to be animated when I turn them, so that it feels like I'm reading an actual book
31	As a reader, I want to select unknown words to see their definition, so that I can learn the definition and pronunciation of new words
32	As a reader, I want to be able to connect with a remote user, so that I know if I have access to someone with whom I can read
33	As a reader, I want to read with a connected reader using audio, so that we can read together
34	As an account holder, I want to connect remotely with a friend that is also using the product, so that we can read together
36	As a reader, I want to be able to connect with a nearby device, so that we can read together on separate devices
37	As an account holder, I want to have a list of friends who also use the application, so that I can connect with them remotely to read together
38	As a reader, I want to be matched with a remote reader based on reading level, so that we both enjoy our time and feel equally challenged when reading together
39	As a reader, I want to read with a connected reader using video, so that I can see the person with whom I'm reading

# Inukshuk Books User Story Size Estimates and Dependencies

Software Product Management Specialization Capstone

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#	Requirement	SP	Dependency
1	As a reader, I want the product to be mobile, so that I can use it anywhere	1	
2	As a reader, I want the application to remotely access the book content, so that the application doesn't require a large amount of memory	3	1
3	As a reader, I want to be able to save selected reading material locally to the device, so that I can read without a wireless connection	3	2
4	As a reader, I want to be able to browse all available reading material, so that I can choose something to read	2	2
5	As a reader, I want to see the covers of the books while I'm browsing through them, so that I can judge a book by its cover	2	4
6	As a reader, I want to select reading material, so that I can read it	2	
7	As a reader, I want to be able to sort reading material based on comprehension difficulty or genre	1	4
8	As a reader, I want to be able to search for reading material, so that I can find a specific piece of reading material that I have in mind	3	2
9	As a reader, I want to be able to rate reading material, so that it can be suggested to other readers	2	
10	As a reader, I want to be able to create an account, so that I can save information about my activity for my reference later	2	
11	As an account holder, I want to be able to log into my account, so that I can access my account	1	10
12	As an account holder, I want to be able to reset my password, so that I can increase security	1	10
13	As an account holder, I want to be able to browse the reading material that I have previously read, so that I can go back to that content that I really liked	3	10, 26, 32
14	As an account holder, I want to be able to add reading material to my To-Read list, so that I can read it later	1	10
15	As an account holder, I want to be able to delete reading material from my To-Read list, so that it is no longer found on the list	1	14
16	As an account holder, I want to be able to add reading material to my Favorites list, so that I have all my favorite reading material in one place	1	10
17	As an account holder, I want to be able to delete reading material to my Favorites list, so that it is no longer found on the list	1	16
18	As an account holder, I want material suggested to me based on reading material I have rated positively, so that I can find other books that I will like	2	9
19	As an account holder, I want reading material suggested to me based on the other reading material I have read, so that I can easily find new reading material	2	10,13
20	As an account holder, I want to have my reading fluency and reading comprehension level tested, so that I can use it to identify appropriate reading material	2	10
21	As an account holder, I want reading material suggested to me based on reading level, so that it is easy to find good reading material	3	20
22	As an account holder, I want the application to track my reading fluency and comprehension improvements, so that I can have material updated to my appropriate skill level	3	20
23	As a reader, I want the application to support reading fluency through voice recognition, so that the application can test reading fluency consistently and accurately	3	

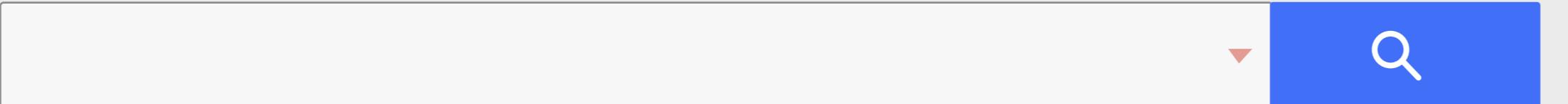
# Inukshuk Books User Story Size Estimates and Dependencies

Software Product Management Specialization Capstone

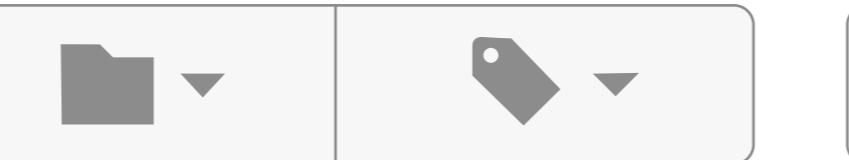
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#	Requirement	SP	Dependency
24	As a reader, I want the view of a page to look close to the fidelity of a page in an actual book, so that its full story impact is maintained regardless of the medium	3	
25	As a reader, I want the background of books to be off-white (as opposed to bright-white), so that I don't strain my eyes when I'm reading	1	24
26	As a reader, I want to be able to read material without a partner, so that I can read and practice at my own pace	2	
27	As a reader, I want the application to work in both portrait and landscape orientation, so that I can choose the way I view material	3	1
28	As a reader, I want any pictures associated with the content to appear with the text, so that they can supplement the reading material	2	
29	As a reader, I want to be able to adjust font size, so that it is easier to read	2	
30	As a reader, I want pages to be animated when I turn them, so that it feels like I'm reading an actual book	3	24
31	As a reader, I want to select unknown words to see their definition, so that I can learn the definition and pronunciation of new words	3	
32	As a reader, I want to be able to connect with a remote user, so that I know if I have access to someone with whom I can read	3	
33	As a reader, I want to read with a connected reader using audio, so that we can read together	3	32
34	As an account holder, I want to connect remotely with a friend that is also using the product, so that we can read together	3	10, 32
36	As a reader, I want to be able to connect with a nearby device, so that we can read together on separate devices	3	
37	As an account holder, I want to have a list of friends who also use the application, so that I can connect with them remotely to read together	2	34
38	As a reader, I want to be matched with a remote reader based on reading level, so that we both enjoy our time and feel equally challenged when reading together	3	20, 32
39	As a reader, I want to read with a connected reader using video, so that I can see the person with whom I'm reading	3	32



Mail ▾



More ▾

COMPOSE

## Size Estimates and Dependencies

Inbox x

Inbox (1)



Kat Zimmerman

to You, Alexa Walker, Joshua Ferguson

(this morning) ☆



Starred

Sent Mail

Hi everyone!

Drafts

Attached is the list of user stories! They are now annotated with size estimates and dependencies for each.

Chat

See you guys later,

Search people...

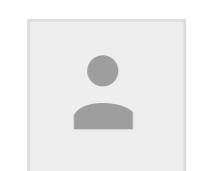
Mom

Set status here ▾

Call phone

Kat

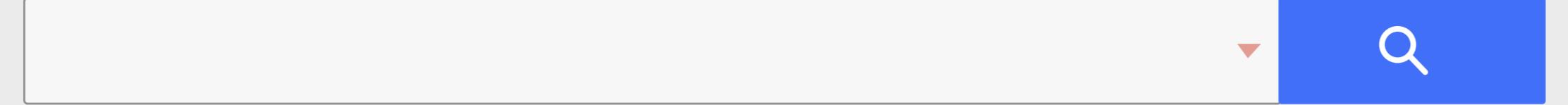
[View attachment](#)



Click here to [Reply](#) or [Forward](#)



...



Mail ▾



COMPOSE

## Risk Assessment

Inbox x

Inbox (3)



Alexa Walker

⌚ (this morning) ☆



Starred

Sent Mail

Hi everyone,

Drafts

Kat let me know that you wanted my opinion on some of the risks for the UI features. The features that she specified were the Off-white backgrounds, the Landscape and portrait mode, Adjustable font sizes, and Animated page turning. Here are what I think the risks for those features would be!

Chat

Search people...

Mom

Set status here ▾

Call phone

Off-white background - Low Risk

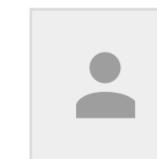
Landscape and Portrait mode - Moderate Risk

Adjustable font sizes - Moderate Risk

Animated page turning - Moderate Risk

Hope that helps you out! Let me know if you needed more risks assessed.

Alexa



Click here to [Reply](#) or [Forward](#)



...

## Week 3 - Release Plan

Sprint 1 (19 / 20)	Sprint 2 (20 / 20)	Sprint 3 (19 / 20)	Backlog (10 user stories)
3 Connect with remote user	2 Select material	1 Add to Favorites list	2 Suggest material based on previously read
3 Audio connection	2 Adjustable font size	3 Browse previously read	3 Connect nearby
3 Page maintains fidelity	3 Definitions	3 Connect with a friend	2 Friends list
2 Pictures	3 Portrait and Landscape	2 Book covers	2 Rate material
1 Mobile product	3 Save selected material locally	1 Delete from Favorites list	2 Suggest material based on previously rated
3 Remotely access content	3 Search for material	1 Delete from To-Read list	3 Suggest material based on reading level
2 Browse all material	1 Sort material	1 Off-white background	3 Support voice recognition
2 Read alone	2 Create an account	1 Reset password	3 Animated page turning
	1 Add to To-Read list	1 Log into account	3 Reading level matches
		2 Test fluency and comprehension	3 Video connections
		3 Track improvements	
Legend			
Risk	Priority		
High	<b>High</b>		
Moderate	Moderate		
Low	Low		

# Inukshuk Books User Story Backlog

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#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
1	As a reader, I want the product to be mobile, so that I can use it anywhere	1	1	Moderate	1		Mobile Product
24	As a reader, I want the view of a page to look close to the fidelity of a page in an actual book, so that its full story impact is maintained regardless of the medium	3	1	High	1		Page maintain fidelity
25	As a reader, I want the background of books to be off-white (as opposed to bright-white), so that I don't strain my eyes when I'm reading	1	2	Low	1	24	Off-white background
26	As a reader, I want to be able to read material without a partner, so that I can read and practice at my own pace	2	1	Moderate	1		Read alone
27	As a reader, I want the application to work in both portrait and landscape orientation, so that I can choose the way I view material	3	2	Moderate	1	1	Portrait and landscape
28	As a reader, I want any pictures associated with the content to appear with the text, so that they can supplement the reading material	2	1	High	1		Pictures
29	As a reader, I want to be able to adjust font size, so that it is easier to read	2	2	Moderate	1		Adjustable font size
32	As a reader, I want to be able to connect with a remote user, so that I know if I have access to someone with whom I can read	3	1	High	1		Connect with remote user
33	As a reader, I want to read with a connected reader using audio, so that we can read together	3	1	High	1	32	Read with audio
2	As a reader, I want the application to remotely access the book content, so that the application doesn't require a large amount of memory	3	1	Moderate	2	1	Remotely access content
3	As a reader, I want to be able to save selected reading material locally to the device, so that I can read without a wireless connection	3	2	Moderate	2	2	Save selected material locally
4	As a reader, I want to be able to browse all available reading material, so that I can choose something to read	2	1	Moderate	2	2	Browse all material
5	As a reader, I want to see the covers of the books while I'm browsing through them, so that I can judge a book by its cover	2	2	Low	2	4	Book covers
6	As a reader, I want to select reading material, so that I can read it	2	1	Low	2		Select material
7	As a reader, I want to be able to sort reading material based on comprehension difficulty or genre	1	2	Moderate	2	4	Sort material
8	As a reader, I want to be able to search for reading material, so that I can find a specific piece of reading material that I have in mind	3	2	Moderate	2	2	Search for material
10	As a reader, I want to be able to create an account, so that I can save information about my activity for my reference later	2	2	Low	2		Create an account

# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
10	As a reader, I want to be able to create an account, so that I can save information about my activity for my reference later	2	2	Low	2		Create account
11	As an account holder, I want to be able to log into my account, so that I can access my account	1	2	Low	2	10	Log into account
12	As an account holder, I want to be able to reset my password, so that I can increase security	1	2	Low	2	10	Reset Password
13	As an account holder, I want to be able to browse the reading material that I have previously read, so that I can go back to that content that I really liked.	3	2	Moderate	3	10, 26, 32	Browse previously read
14	As an account holder, I want to be able to add reading material to my To-Read list, so that I can read it later	1	2	Moderate	3	10	Add To-Read list
15	As an account holder, I want to be able to delete reading material from my To-Read list, so that it is no longer found on the list	1	2	Low	3	14	Delete from To-Read list
16	As an account holder, I want to be able to add reading material to my Favorites list, so that I have all my favorite reading material in one place	1	2	Moderate	3	10	Add to Favorites List
17	As an account holder, I want to be able to delete reading material to my Favorites list, so that it is no longer found on the list	1	2	Low	3	16	Delete from Favorites List
19	As an account holder, I want reading material suggested to me based on the other reading material I have read, so that I can easily find new reading material	2	3	Moderate	3	10, 13	Suggest material based on previously read
31	As a reader, I want to select unknown words to see their definition, so that I can learn the definition and pronunciation of new words	3	2	Moderate	3		Definitions
34	As an account holder, I want to connect remotely with a friend that is also using the product, so that we can read together	3	2	Moderate	3	10, 32	Connect with a friend (aka Remote Connection)
36	As a reader, I want to be able to connect with a nearby device, so that we can read together on separate devices	3	3	Moderate	3		Connect nearby
37	As an account holder, I want to have a list of friends who also use the application, so that I can connect with them remotely to read together	2	3	Moderate	3	34	Friends list
9	As a reader, I want to be able to rate reading material, so that it can be suggested to other readers	2	3	Moderate	4		Rate material
18	As an account holder, I want material suggested to me based on reading material I have rated positively, so that I can find other books that I will like	2	3	Moderate	4	9	Suggest material based on previously rated
20	As an account holder, I want to have my reading fluency and reading comprehension level tested, so that I can use it to identify appropriate reading material	2	3	Moderate	4	10	Test fluency and comprehension
21	As an account holder, I want reading material suggested to me based on reading level, so that it is easy to find good reading material	33	3	Moderate	4	20	Suggest material based on reading level

# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
22	As an account holder, I want the application to track my reading fluency and comprehension improvements, so that I can have material updated to my appropriate skill level	3	3	Moderate	4	20	Track improvements
23	As a reader, I want the application to support reading fluency through voice recognition, so that the application can test reading fluency consistently and accurately	3	3	High	4		Support voice recognition
30	As a reader, I want pages to be animated when I turn them, so that it feels like I'm reading an actual book	3	3	Moderate	4	24	Animated pages
38	As a reader, I want to be matched with a remote reader based on reading level, so that we both enjoy our time and feel equally challenged when reading together	3	3	Moderate	4	20, 32	Reading level matches
39	As a reader, I want to read with a connected reader using video, so that I can see the person with whom I'm reading	3	3	High	4	32	Voice connections
	<b>Total Story Points</b>	<b>84</b>					

# Task Breakdown

Software Product Management Specialization Capstone  
University of Alberta



#	User Story	Tasks
1	As a reader, I want the product to be mobile, so that I can use it anywhere	<ul style="list-style-type: none"><li>• Design wireframe for the application</li><li>• Setup iOS development environment</li></ul>
24	As a reader, I want the view of a page to look close to the fidelity of a page in an actual book, so that its full story impact is maintained regardless of the medium	<ul style="list-style-type: none"><li>• Design page layout</li><li>• Generate wireframe for page layout</li><li>• Write source code for page layout</li><li>• Review source code for page layout</li><li>• Write acceptance criteria for page layout</li><li>• Write acceptance tests for page layout</li><li>• Execute acceptance tests for page layout</li><li>• Write internal documentation for page layout</li></ul>
25	As a reader, I want the background of books to be off-white (as opposed to bright-white), so that I don't strain my eyes when I'm reading	<ul style="list-style-type: none"><li>• Write source code for off-white backgrounds</li><li>• Review source code for off-white backgrounds</li><li>• Write unit tests for off-white backgrounds</li><li>• Write acceptance criteria for off-white backgrounds</li><li>• Write acceptance tests for off-white backgrounds</li><li>• Execute acceptance tests for off-white backgrounds</li></ul>
26	As a reader, I want to be able to read material without a partner, so that I can read and practice at my own pace	<ul style="list-style-type: none"><li>• Write source code for solo reading</li><li>• Review source code for solo reading</li><li>• Write unit tests for solo reading</li><li>• Write acceptance criteria for solo reading</li><li>• Write acceptance tests for solo reading</li><li>• Execute acceptance tests for solo reading</li><li>• Write internal documentation for solo reading</li><li>• Write user manual for solo reading</li></ul>
27	As a reader, I want the application to work in both portrait and landscape orientation, so that I can choose the way I view material	<ul style="list-style-type: none"><li>• Write source code for portrait and landscape modes</li><li>• Review source code for portrait and landscape modes</li><li>• Write unit tests for portrait and landscape modes</li><li>• Write acceptance criteria for portrait and landscape modes</li><li>• Write acceptance tests for portrait and landscape modes</li><li>• Execute acceptance tests for portrait and landscape modes</li><li>• Write internal documentation for portrait and landscape modes</li></ul>
28	As a reader, I want any pictures associated with the content to appear with the text, so that they can supplement the reading material	<ul style="list-style-type: none"><li>• Write source code for pictures in content</li><li>• Review source code for pictures in content</li><li>• Write unit tests for pictures in content</li><li>• Write acceptance criteria for pictures in content</li><li>• Write acceptance tests for pictures in content</li><li>• Execute acceptance tests for pictures in content</li><li>• Write internal documentation for pictures in content</li></ul>
29	As a reader, I want to be able to adjust font size, so that it is easier to read	<ul style="list-style-type: none"><li>• Write source code for adjustable font sizes</li><li>• Review source code for adjustable font sizes</li><li>• Write unit tests for adjustable font sizes</li><li>• Write acceptance criteria for adjustable font sizes</li><li>• Write acceptance tests for adjustable font sizes</li><li>• Execute acceptance tests for adjustable font sizes</li><li>• Write internal documentation for adjustable font sizes</li><li>• Write user manual for adjustable font sizes</li></ul>
32	As a reader, I want to be able to connect with a remote user, so that I know if I have access to someone with whom I can read	<ul style="list-style-type: none"><li>• Write source code for connecting with remote user</li><li>• Review source code for connecting with remote user</li><li>• Write unit tests for connecting with remote user</li><li>• Write acceptance criteria for connecting with remote user</li><li>• Write acceptance tests for connecting with remote user</li><li>• Execute acceptance tests for connecting with remote user</li><li>• Write internal documentation for connecting with remote user</li><li>• Write user manual for connecting with remote user</li></ul>
33	As a reader, I want to read with a connected reader using audio, so that we can read together	<ul style="list-style-type: none"><li>• Write source code for connecting with audio</li><li>• Review source code for connecting with audio</li><li>• Write unit tests for connecting with audio</li><li>• Write acceptance criteria for connecting with audio</li><li>• Write acceptance tests for connecting with audio</li><li>• Execute acceptance tests for connecting with audio</li><li>• Write internal documentation for connecting with audio</li><li>• Write user manual for connecting with audio</li></ul>



More ▾

COMPOSE

## User Stories

Inbox x

Inbox (3)

Starred

Sent Mail

Drafts

Chat

Search people...

Mom

Set status here

Call phone

Joshua Ferguson  
to me, Kat Zimmerman, Alexa Walker

(Thursday)



Hello,

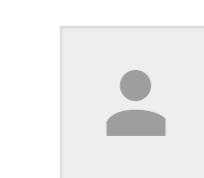
It was good seeing you earlier. We've finished the Task Breakdown for the user stories in this sprint! I've attached it, if you wanted to take a look at it.

Josh

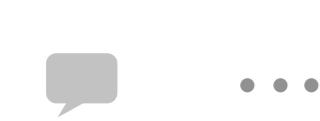
## Task Breakdown

Software Product Management Specialization Capstone  
University of Alberta

#	User Story	Tasks
1	As a reader, I want the product to be mobile, so that I can use it anywhere	<ul style="list-style-type: none"> <li>• Design wireframe for the application</li> <li>• Setup iOS development environment</li> </ul>
24	As a reader, I want the view of a page to look close to the fidelity of a page in an actual book, so that its full story impact is maintained regardless of the medium	<ul style="list-style-type: none"> <li>• Design page layout</li> <li>• Generate wireframe for page layout</li> <li>• Write source code for page layout</li> <li>• Review source code for page layout</li> <li>• Write acceptance criteria for page layout</li> <li>• Write acceptance tests for page layout</li> <li>• Execute acceptance tests for page layout</li> <li>• Write internal documentation for page layout</li> </ul>
25	As a reader, I want the background of books to be off-white (as opposed to bright-white), so that I don't strain my eyes when I'm reading	<ul style="list-style-type: none"> <li>• Write source code for off-white backgrounds</li> <li>• Review source code for off-white backgrounds</li> <li>• Write unit tests for off-white backgrounds</li> <li>• Write acceptance criteria for off-white backgrounds</li> <li>• Write acceptance tests for off-white backgrounds</li> <li>• Execute acceptance tests for off-white backgrounds</li> </ul>
26	As a reader, I want to be able to read material without a partner, so that I can read and practice at my own pace	<ul style="list-style-type: none"> <li>• Write source code for solo reading</li> <li>• Review source code for solo reading</li> <li>• Write unit tests for solo reading</li> <li>• Write acceptance criteria for solo reading</li> <li>• Write acceptance tests for solo reading</li> <li>• Execute acceptance tests for solo reading</li> <li>• Write internal documentation for solo reading</li> <li>• Write user manual for solo reading</li> </ul>
27	As a reader, I want the application to work in both portrait and landscape orientation, so that I can choose the way I view material	<ul style="list-style-type: none"> <li>• Write source code for portrait and landscape modes</li> <li>• Review source code for portrait and landscape modes</li> <li>• Write unit tests for portrait and landscape modes</li> <li>• Write acceptance criteria for portrait and landscape modes</li> <li>• Write acceptance tests for portrait and landscape modes</li> <li>• Execute acceptance tests for portrait and landscape modes</li> <li>• Write internal documentation for portrait and landscape modes</li> </ul>
28	As a reader, I want any pictures associated with the content to appear with the text, so that they can supplement the reading material	<ul style="list-style-type: none"> <li>• Write source code for pictures in content</li> <li>• Review source code for pictures in content</li> <li>• Write unit tests for pictures in content</li> <li>• Write acceptance criteria for pictures in content</li> <li>• Write acceptance tests for pictures in content</li> <li>• Execute acceptance tests for pictures in content</li> <li>• Write internal documentation for pictures in content</li> </ul>
29	As a reader, I want to be able to adjust font size, so that it is easier to read	<ul style="list-style-type: none"> <li>• Write source code for adjustable font sizes</li> <li>• Review source code for adjustable font sizes</li> <li>• Write unit tests for adjustable font sizes</li> <li>• Write acceptance criteria for adjustable font sizes</li> <li>• Write acceptance tests for adjustable font sizes</li> <li>• Execute acceptance tests for adjustable font sizes</li> <li>• Write internal documentation for adjustable font sizes</li> <li>• Write user manual for adjustable font sizes</li> </ul>
32	As a reader, I want to be able to connect with a remote user, so that I know if I have access to someone with whom I can read	<ul style="list-style-type: none"> <li>• Write source code for connecting with remote user</li> <li>• Review source code for connecting with remote user</li> <li>• Write unit tests for connecting with remote user</li> <li>• Write acceptance criteria for connecting with remote user</li> <li>• Write acceptance tests for connecting with remote user</li> <li>• Execute acceptance tests for connecting with remote user</li> <li>• Write internal documentation for connecting with remote user</li> <li>• Write user manual for connecting with remote user</li> </ul>
33	As a reader, I want to read with a connected reader using audio, so that we can read together	<ul style="list-style-type: none"> <li>• Write source code for connecting with audio</li> <li>• Review source code for connecting with audio</li> <li>• Write unit tests for connecting with audio</li> <li>• Write acceptance criteria for connecting with audio</li> <li>• Write acceptance tests for connecting with audio</li> <li>• Execute acceptance tests for connecting with audio</li> <li>• Write internal documentation for connecting with audio</li> <li>• Write user manual for connecting with audio</li> </ul>

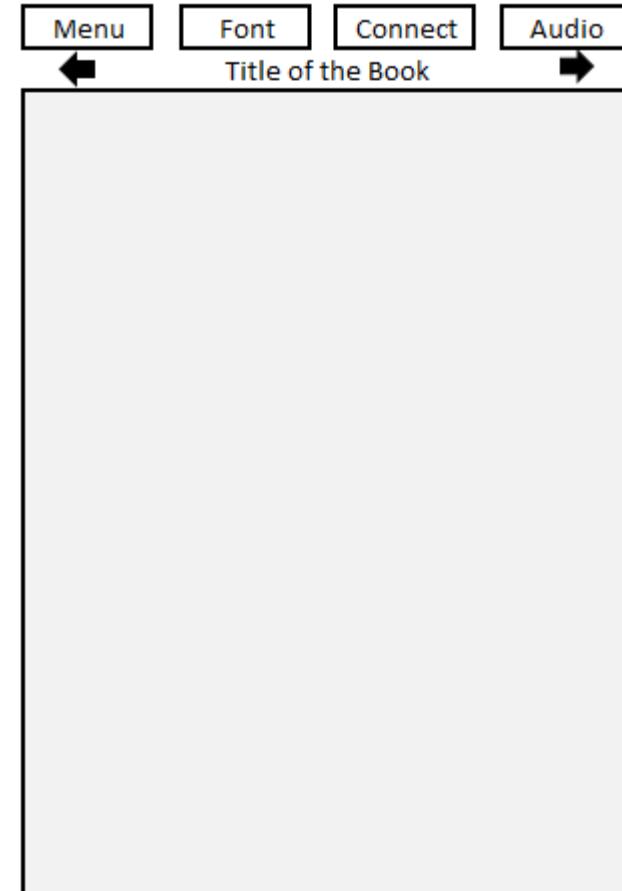


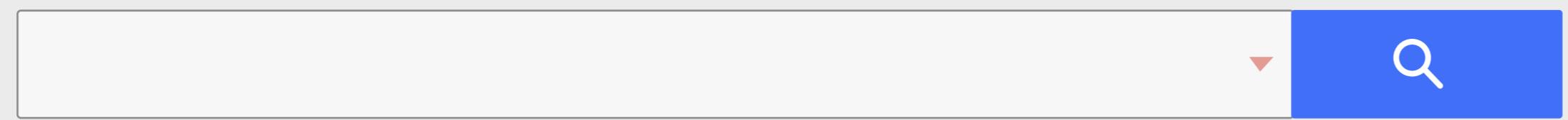
Click here to Reply or Forward



...

# Suhaimi Chan Bodleian Project Wireframe





Mail ▾



More ▾

COMPOSE

## RE: Acceptance Tests

Inbox x

Inbox (2)



Kat Zimmerman

to me

⌚ (this afternoon) ⭐ ↻ ▾

Starred

Sent Mail

Drafts

Chat

Search people...

Mom

Set status here ▾

Call phone

Hi there,

I know that I said in the stand up this morning that I would work on writing the acceptance tests and criteria, but Alexa needs my help with the page layout user stories. Would you be able to finish writing the acceptance tests and criteria so that I can pair program with her?

I have already wrote acceptance tests and criteria for the following user stories:

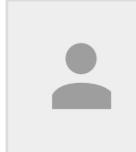
- As a reader, I want the product to be mobile, so that I can use it anywhere
- As a reader, I want the view of a page to look close to the fidelity of a page in an actual book, so that its full story impact is maintained regardless of the medium.
- As a reader, I want the background of books to be off-white (as opposed to bright-white), so that I don't strain my eyes when I'm reading
- As a reader, I want to be able to read material without a partner, so that I can read and practice at my own pace

I would just need you to write the acceptance tests and criteria for the following user stories:

- As a reader, I want the application to work in both portrait and landscape orientation, so that I can choose the way I view material
- As a reader, I want any pictures associated with the content to appear with the text, so that they can supplement the reading material
- As a reader, I want to be able to adjust font size, so that it is easier to read
- As a reader, I want to be able to connect with a remote user, so that I know if I have access to someone with whom I can read
- As a reader, I want to read with a connected reader using audio, so that we can read together

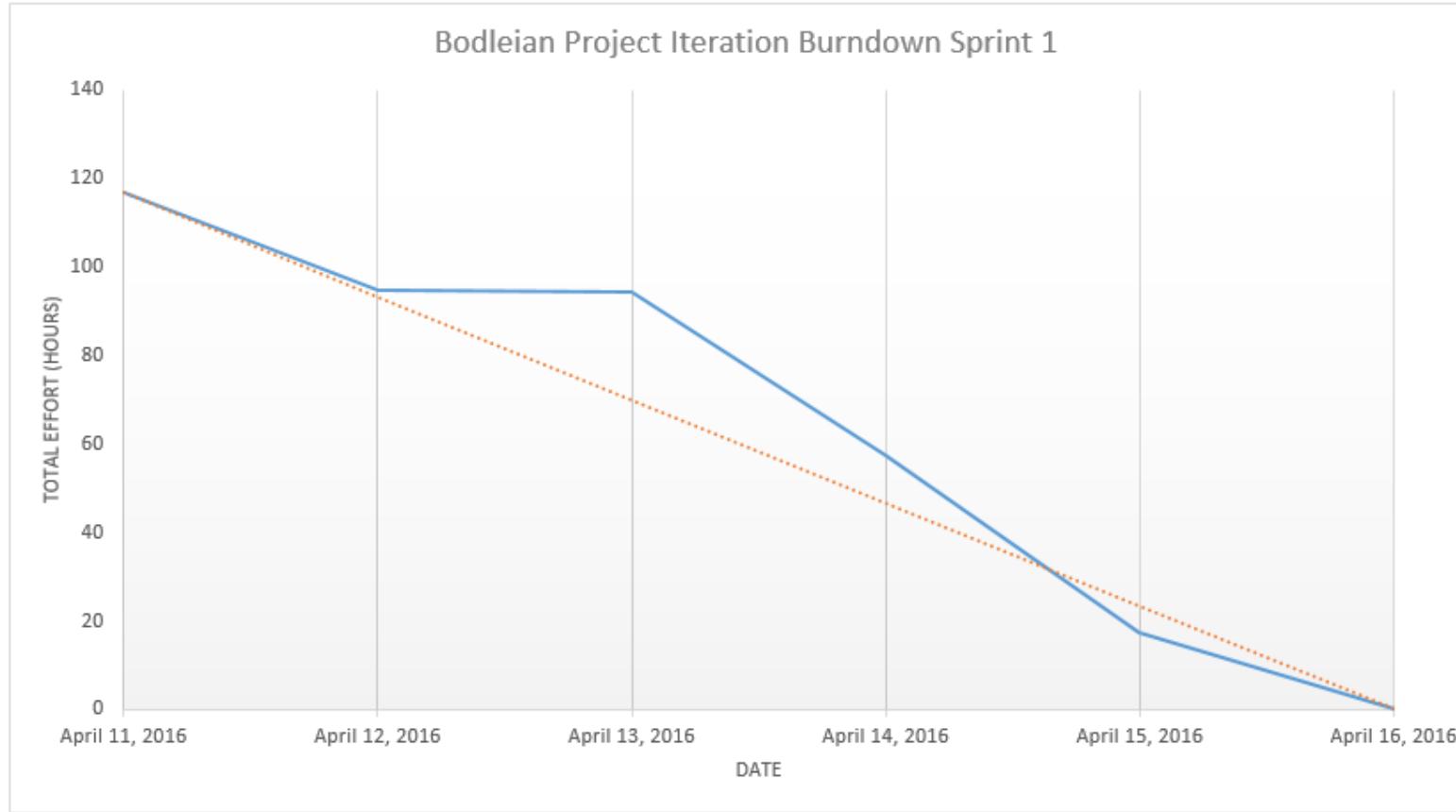
Many thanks,

Kat



Click here to [Reply](#) or [Forward](#)

...



My interpretation of the burndown:

1. The first day result of Sprint 1 showing on April 12, 2016, the completed total effort hours seemed to be in line with the prediction line
2. April 12, 2016 and April 13, 2016 seemed like nothing got done as shown as a flat line with about the same amount of total effort hours
3. The project seemed to be behind the schedule from April 13, 2016 to April 14, 2016
4. Then toward the end of sprint, on April 15, 2016, it seemed to catch up with the iteration burndown below the prediction line and total effort hours completed to match with the prediction line



## Retrospective Meeting Minutes

### ***Sprint 1***

#### **What Went Well:**

- Team got all the expected user stories completed.
- Team had a standup everyday.
  - Weren't always first thing in the morning but they always occurred.
- In the end, all the user stories met the team's definition of done.
- Team created a working product.
- Story points were accurate this sprint.
  - Want to re-evaluate after next sprint to know for sure.

#### **What We Could've Done Better:**

- Unit tests weren't done before writing source code for Josh's features.
- Should have written our acceptance tests and criteria before we started developing.

#### **What We Can Improve On:**

- The use of the task board.
  - Was not always an accurate representation of the progress.
- Write acceptance tests and unit tests early.
- Pair program more often.
  - Happened a bit, but could do it more.
- Improve communication.
  - Pair programming should help.
  - More face-to-face conversations.

# Week 4 - Release Plan

Sprint 1 (20 / 20)	Sprint 2 (20 / 20)	Sprint 3 (20 / 20)	Backlog (11 user stories)
2 Adjustable font size 3 Audio connection 3 Connect with remote user 1 Mobile product 1 Off-white background 3 Page maintains fidelity 2 Pictures 3 Portrait and Landscape 2 Read alone	3 Remotely access content 2 Browse all material 2 Select material 3 Save material locally 3 Search for material 1 Sort material 3 Bookmarks 2 Create an account 1 Log into account	2 Book covers 1 Add to Favorites list 1 Add to To-Read list 3 Browse previously read 3 Connect with a friend 1 Reset password 1 Delete from To-Read list 1 Delete from Favorites list 3 Definitions 2 Suggest material based on previously read 2 Friends list	2 Rate material 2 Suggest material based on previously rated 2 Test fluency and comprehension 3 Suggest material based on reading level 3 Track improvements 3 Support voice recognition 3 Animated page turning 3 Reading level matches 3 Video connections 1 Highlight text 2 Save highlights
<b>Legend</b>			
<b>Risk</b>  High  Moderate  Low	<b>Priority</b> <b>High</b> Moderate Low		

# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
1	As a reader, I want the product to be mobile, so that I can use it anywhere	1	1	Moderate	1		Mobile Product
24	As a reader, I want the view of a page to look close to the fidelity of a page in an actual book, so that its full story impact is maintained regardless of the medium	3	1	High	1		Page maintain fidelity
25	As a reader, I want the background of books to be off-white (as opposed to bright-white), so that I don't strain my eyes when I'm reading	1	2	Low	1	24	Off-white background
26	As a reader, I want to be able to read material without a partner, so that I can read and practice at my own pace	2	1	Moderate	1		Read alone
27	As a reader, I want the application to work in both portrait and landscape orientation, so that I can choose the way I view material	3	2	Moderate	1	1	Portrait and landscape
28	As a reader, I want any pictures associated with the content to appear with the text, so that they can supplement the reading material	2	1	High	1		Pictures
29	As a reader, I want to be able to adjust font size, so that it is easier to read	2	2	Moderate	1		Adjustable font size
32	As a reader, I want to be able to connect with a remote user, so that I know if I have access to someone with whom I can read	3	1	High	1		Connect with remote user
33	As a reader, I want to read with a connected reader using audio, so that we can read together	3	1	High	1	32	Read with audio
2	As a reader, I want the application to remotely access the book content, so that the application doesn't require a large amount of memory	3	1	Moderate	2	1	Remotely access content
3	As a reader, I want to be able to save selected reading material locally to the device, so that I can read without a wireless connection	3	2	Moderate	2	2	Save selected material locally
4	As a reader, I want to be able to browse all available reading material, so that I can choose something to read	2	1	Moderate	2	2	Browse all material
5	As a reader, I want to see the covers of the books while I'm browsing through them, so that I can judge a book by its cover	2	2	Low	2	4	Book covers
6	As a reader, I want to select reading material, so that I can read it	2	1	Low	2		Select material
7	As a reader, I want to be able to sort reading material based on comprehension difficulty or genre	1	2	Moderate	2	4	Sort material
8	As a reader, I want to be able to search for reading material, so that I can find a specific piece of reading material that I have in mind	3	2	Moderate	2	2	Search for material
40	As a reader, I want my place in a book to be saved, so that I can return to that place at a later time	3	2	Moderate	2		Bookmarks

# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
10	As a reader, I want to be able to create an account, so that I can save information about my activity for my reference later	2	2	Low	3		Create account
11	As an account holder, I want to be able to log into my account, so that I can access my account	1	2	Low	3	10	Log into account
12	As an account holder, I want to be able to reset my password, so that I can increase security	1	2	Low	3	10	Reset Password
13	As an account holder, I want to be able to reset my password, so that I can increase security	3	2	Moderate	3	10, 26, 32	Browse previously read
14	As an account holder, I want to be able to add reading material to my To-Read list, so that I can read it later	1	2	Moderate	3	10	Add To-Read list
15	As an account holder, I want to be able to delete reading material from my To-Read list, so that it is no longer found on the list	1	2	Low	3	14	Delete from To-Read list
16	As an account holder, I want to be able to add reading material to my Favorites list, so that I have all my favorite reading material in one place	1	2	Moderate	3	10	Add to Favorites List
17	As an account holder, I want to be able to delete reading material to my Favorites list, so that it is no longer found on the list	1	2	Low	3	16	Delete from Favorites List
31	As a reader, I want to select unknown words to see their definition, so that I can learn the definition and pronunciation of new words	3	2	Moderate	3		Definitions
34	As an account holder, I want to connect remotely with a friend that is also using the product, so that we can read together	3	2	Moderate	3	10, 32	Connect with a friend (aka Remote Connection)
37	As an account holder, I want to have a list of friends who also use the application, so that I can connect with them remotely to read together	2	3	Moderate	3	34	Friends list
9	As a reader, I want to be able to rate reading material, so that it can be suggested to other readers	2	3	Moderate	4		Rate material
18	As an account holder, I want material suggested to me based on reading material I have rated positively, so that I can find other books that I will like	2	3	Moderate	4	9	Suggest material based on previously rated
19	As an account holder, I want reading material suggested to me based on the other reading material I have read, so that I can easily find new reading material	2	3	Moderate	4	10, 13	Suggest material based on previously read
20	As an account holder, I want to have my reading fluency and reading comprehension level tested, so that I can use it to identify appropriate reading material	2	3	Moderate	4	10	Test fluency and comprehension
21	As an account holder, I want reading material suggested to me based on reading level, so that it is easy to find good reading material	33	3	Moderate	4	20	Suggest material based on reading level
22	As an account holder, I want the application to track my reading fluency and comprehension improvements, so that I can have material updated to my appropriate skill level	3	3	Moderate	4	20	Track improvements

# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

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#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
23	As a reader, I want the application to support reading fluency through voice recognition, so that the application can test reading fluency consistently and accurately	3	3	High	4		Support voice recognition
30	As a reader, I want pages to be animated when I turn them, so that it feels like I'm reading an actual book	3	3	Moderate	4	24	Animated pages
36	As a reader, I want to be able to connect with a nearby device, so that we can read together on separate devices	3	3	Moderate	4		Connect nearby
38	As a reader, I want to be matched with a remote reader based on reading level, so that we both enjoy our time and feel equally challenged when reading together	3	3	Moderate	4	20, 32	Reading level matches
39	As a reader, I want to read with a connected reader using video, so that I can see the person with whom I'm reading	3	3	High	4	32	Voice connections
41	As a reader, I want to be able to highlight text from a book, so that I can remember important aspect of the book	1	3	Low	4		Highlight text
42	As a reader, I want the highlights I created to be saved after I exit the book, so that I can review them when I return to the book	2	3	Moderate	4	41	Save highlights
	Total Story Points	90					



I'm going to start again with the disclaimer that this is not a "correct" answer to the release plan. It is simply one solution. There are many ways that you could've chosen to generate this release plan. There is no "correct" answer. However, to get all the learners in the capstone to the same solution, we must provide you with a solution. This solution we are providing you with is to be used with all the assignments until we provide you with a new solution. We are providing you with an explanation of our solution so that you can see what our solution is based on. As I said before, this is not necessarily a "correct" solution.

In the last sprint, the team completed 20 story points worth of work. So we are going to continue to use that target for our sprints.

Again, we want to start by placing any high priority user stories into Sprint 2. Those would be the Remotely access content user story (#2), the Browse all material user story (#4), and the Select material user story (#6). This takes up 7 of our available story points which leave us with 13 remaining story points.

Based on these user stories, we would say that the theme for this sprint would be to set up the functionalities for choosing material to read and accessing that material. I think that this will produce a usable product for the end of the sprint. Since we set up the reading functionalities in the last sprint, by the end of this sprint, the user should be able to choose and select reading material which is a lot of the main functionalities.

Now we want to choose priority 2 user stories that go with the theme. From the last release plan, we had chosen the Save selected material locally user story (#3), the Book covers user story (#5), the Sort material user story (#7), the Search material (#8), and then the account features (US#10, 11, 12). I think that these all go with the theme except for the account features. So I kept user stories #3, 5, 7, and 8 to the release plan. That means 16 of our 20 story points are now accounted for.

In the backlog refinement meeting, Lisa said that the Bookmarks user story (#40) should be prioritized over the accounts. So I've added that users story to the sprint. That leaves just one remaining story point for this sprint.

At this point, we could add any 1 point story point. However, all of the 1 point user stories have some tie to another user story. For example, we could do the Log into account user story (#11) or the Reset password user story (#12) but I feel like it makes sense to do those two user stories in conjunction with the Create an account user story (#10). Similarly, we could add one of the user stories about adding or deleting from the Favorites or To-Do List (US# 14, 15, 16, 17). But again, I think it makes more sense to do those together.

The one user story I would consider adding would be the Highlight text (#41) user story but it is a priority 3 user story. So I think it makes more sense to see how much time is remaining if the team does finish all of the scheduled user stories and choose a priority 2 user story based on that time. So I've chosen to leave sprint 2 at 19 story points.



For sprint 3, we want to make sure that we schedule all the priority 2 user stories before we schedule any priority 3 user stories. For priority 3 user stories, we have the account features (US# 10, 11, 12), the Browse previously read user story (#13), the Favorites and To-Read features (US# 14, 15, 16, 17), the Definitions user story (#31), and the Connect with a friend user story (#34). That accounts for 17 of the 20 available story points.

There is no clear theme with this sprint. It just adds additional features. We have 3 available story points. I think it makes the most sense to implement the Friends list user story (#37) because it goes along with the Connect with a friend user story (#34). It doesn't really make sense to have one without the other. That's 2 story points, so we have 1 available story point.

We're now in the same position as the last sprint. We could add the Highlight text user story (#41). However, I think it makes sense to add that one alone with the Save highlights user story (#42). So I'm also going to keep Sprint 3 at 19 story points.



Mail ▾



More ▾

COMPOSE

Inbox (1)

Starred

Sent Mail

Drafts

Chat

Search people...

Mom

Set status here ▾

Call phone

## Sprint 2 - Iteration Plan

Inbox x

Kat Zimmerman

to me, Alexa Walker, Joshua Ferguson

(this morning)

Thanks again for pointing out our miscalculation with our iteration plan! We didn't realize that our estimated hours exceeded our available hours. I guess that's why we run the plans by you!

Anyways, the team has talked about it and we have decided to remove the Sort material user story (#7) from this sprint! If we remove that story, then our estimated hours match our available hours.

Just thought I'd keep you informed! Have a great day!

Kat



...



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# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
1	As a reader, I want the product to be mobile, so that I can use it anywhere	1	1	Moderate	1		Mobile Product
24	As a reader, I want the view of a page to look close to the fidelity of a page in an actual book, so that its full story impact is maintained regardless of the medium	3	1	High	1		Page maintain fidelity
25	As a reader, I want the background of books to be off-white (as opposed to bright-white), so that I don't strain my eyes when I'm reading	1	2	Low	1	24	Off-white background
26	As a reader, I want to be able to read material without a partner, so that I can read and practice at my own pace	2	1	Moderate	1		Read alone
27	As a reader, I want the application to work in both portrait and landscape orientation, so that I can choose the way I view material	3	2	Moderate	1	1	Portrait and landscape
28	As a reader, I want any pictures associated with the content to appear with the text, so that they can supplement the reading material	2	1	High	1		Pictures
29	As a reader, I want to be able to adjust font size, so that it is easier to read	2	2	Moderate	1		Adjustable font size
32	As a reader, I want to be able to connect with a remote user, so that I know if I have access to someone with whom I can read	3	1	High	1		Connect with remote user
33	As a reader, I want to read with a connected reader using audio, so that we can read together	3	1	High	1	32	Read with audio
2	As a reader, I want the application to remotely access the book content, so that the application doesn't require a large amount of memory	3	1	Moderate	2	1	Remotely access content
3	As a reader, I want to be able to save selected reading material locally to the device, so that I can read without a wireless connection	3	2	Moderate	2	2	Save selected material locally
4	As a reader, I want to be able to browse all available reading material, so that I can choose something to read	2	1	Moderate	2	2	Browse all material
5	As a reader, I want to see the covers of the books while I'm browsing through them, so that I can judge a book by its cover	2	2	Low	2	4	Book covers
6	As a reader, I want to select reading material, so that I can read it	2	1	Low	2		Select material
8	As a reader, I want to be able to search for reading material, so that I can find a specific piece of reading material that I have in mind	3	2	Moderate	2	2	Search for material
40	As a reader, I want my place in a book to be saved, so that I can return to that place at a later time	3	2	Moderate	2		Bookmarks

# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
10	As a reader, I want to be able to create an account, so that I can save information about my activity for my reference later	2	2	Low	3		Create account
11	As an account holder, I want to be able to log into my account, so that I can access my account	1	2	Low	3	10	Log into account
14	As an account holder, I want to be able to add reading material to my To-Read list, so that I can read it later	1	2	Moderate	3	10	Add To-Read list
15	As an account holder, I want to be able to delete reading material from my To-Read list, so that it is no longer found on the list	1	2	Low	3	14	Delete from To-Read list
16	As an account holder, I want to be able to add reading material to my Favorites list, so that I have all my favorite reading material in one place	1	2	Moderate	3	10	Add to Favorites List
17	As an account holder, I want to be able to delete reading material to my Favorites list, so that it is no longer found on the list	1	2	Low	3	16	Delete from Favorites List
20	As an account holder, I want to have my reading fluency and reading comprehension level tested, so that I can use it to identify appropriate reading material	2	3	Moderate	3	10	Test fluency and comprehension
22	As an account holder, I want the application to track my reading fluency and comprehension improvements, so that I can have material updated to my	3	3	Moderate	3	20	Track improvements
31	As a reader, I want to select unknown words to see their definition, so that I can learn the definition and pronunciation of new words	3	2	Moderate	3		Definitions
38	As a reader, I want to be matched with a remote reader based on reading level, so that we both enjoy our time and feel equally challenged when reading	2	3	Moderate	3	20, 32	Reading level matches
7	As a reader, I want to be able to sort reading material based on comprehension difficulty or genre	1	2	Moderate	4	4	Sort material
9	As a reader, I want to be able to rate reading material, so that it can be suggested to other readers	2	3	Moderate	4		Rate material
12	As an account holder, I want to be able to reset my password, so that I can increase security	1	2	Low	4	10	Reset password
13	As an account holder, I want to be able to browse the reading material that I have previously read, so that I can go back to that content that I really liked	3	2	Moderate	4	10, 26, 32	Browse previously read
18	As an account holder, I want material suggested to me based on reading material I have rated positively, so that I can find other books that I will like	2	3	Moderate	4	9	Suggest material based on previously rated
19	As an account holder, I want reading material suggested to me based on the other reading material I have read, so that I can easily find new reading material	2	3	Moderate	4	10, 13	Suggest material based on previously read
21	As an account holder, I want reading material suggested to me based on reading level, so that it is easy to find good reading material	33	3	Moderate	4	20	Suggest material based on reading level

# Inukshuk Books User Story Backlog

Software Product Management Specialization Capstone

University of Alberta



#	Description	SP	Priority	Risk	Sprint	Dependant on User Story ID#	Short Name
23	As a reader, I want the application to support reading fluency through voice recognition, so that the application can test reading fluency consistently and accurately	3	3	High	4		Support voice recognition
30	As a reader, I want pages to be animated when I turn them, so that it feels like I'm reading an actual book	3	3	Moderate	4	24	Animated pages
34	As an account holder, I want to connect remotely with a friend that is also using the product, so that we can read together	3	2	Moderate	4	10, 32	Connect with a friend (aka Remote connection)
36	As a reader, I want to be able to connect with a nearby device, so that we can read together on separate devices	3	3	Moderate	4		Connect nearby
37	As an account holder, I want to have a list of friends who also use the application, so that I can connect with them remotely to read together	2	3	Moderate	4	34	Friends list
39	As a reader, I want to read with a connected reader using video, so that I can see the person with whom I'm reading	3	3	High	4	32	Voice connections
41	As a reader, I want to be able to highlight text from a book, so that I can remember important aspect of the book	1	3	Low	4		Highlight text
42	As a reader, I want the highlights I created to be saved after I exit the book, so that I can review them when I return to the book	2	3	Moderate	4	41	Save highlights
43	As a reader, I want to see a synopsis page for a book that I select, so that I can determine if it is something that I want to read	2	3	Moderate	4	6	Synopsis Page
	Total Story Points	92					



For this release plan, there is an evident “correct” answer based on the information provided in the Backlog refinement meeting.

In the previous sprint, the team completed 18 story points worth of work. This is what the third sprint should be based upon.

The development team decided to remove the Reset password user story (#12), the Browse previous read user story (#13), the Connect with friends user story (#34), and the Friends list user story (#37). These should not be included in Sprint 3.

The team also determined that the Suggest material based on reading level user story (#21) was not able to be completed since there was necessary information missing from the content database. So that should not have appeared in your Sprint 3.

Lisa, Daniel, and the team decided that they want to implement more educational features. They chose to implement the Test fluency and comprehension user story (#20), the Track improvements user story (#22), the Reading level matches (#38) despite their original low priority ratings. These should be included in your release plan.

Daniel also suggested that the Definitions user story (#31) should remain in Sprint 3. I have chosen to keep all the user stories that were previously scheduled for Sprint 3 in the last release plan unless the team specified otherwise.

## Suhaimi Chan Iteration Plan Sprint 3 Feedback

1. Task dependencies in Sprint 3 are not mentioned. Task dependencies will help with iteration planning.
2. USID #14 and 15 seems to be missing determination on how to add and delete material to the to-read list, respectively. We will need to determine how a reader to add and delete material to the to-read list.
3. USID #16 and 17 seems to be missing determination on how to add and delete material to the favorite list, respectively. We will need to determine how a reader to add and delete material to the favorite list.
4. USID #38 seems to be missing determination on how to match a reader with a remote reader based on reading level. We will need to determine how a reader to be matched with a remote reader based on reading level.
5. There are more self-assigning and pair-programming in sprint 3, in comparison to the previous sprint
6. Nobody assigned to the following tasks in sprint 3:
  - a. Review source code
  - b. Write acceptance criteria
  - c. Write acceptance tests
7. The total hours for sprint 3 are estimated at 116. Deducting my 5.5 hour task for executing acceptance tests from total hours will come at 110.5 developer hours. In the meantime, total developer available hours for sprint 3 are only at 115 hours (Alexa 40 available hours + Josh 40 available hours + Kat 35 available hours). Total estimated developer hours are less than total developer available hours. So this is a good improvement from the previous sprint.
8. Anyone should not hesitate to ask for help when he/she encounters any issues/concerns with his/her part. And anyone should be willing to help when asked for help. This will allow us to move forward quickly, not get stuck and slow down the project.

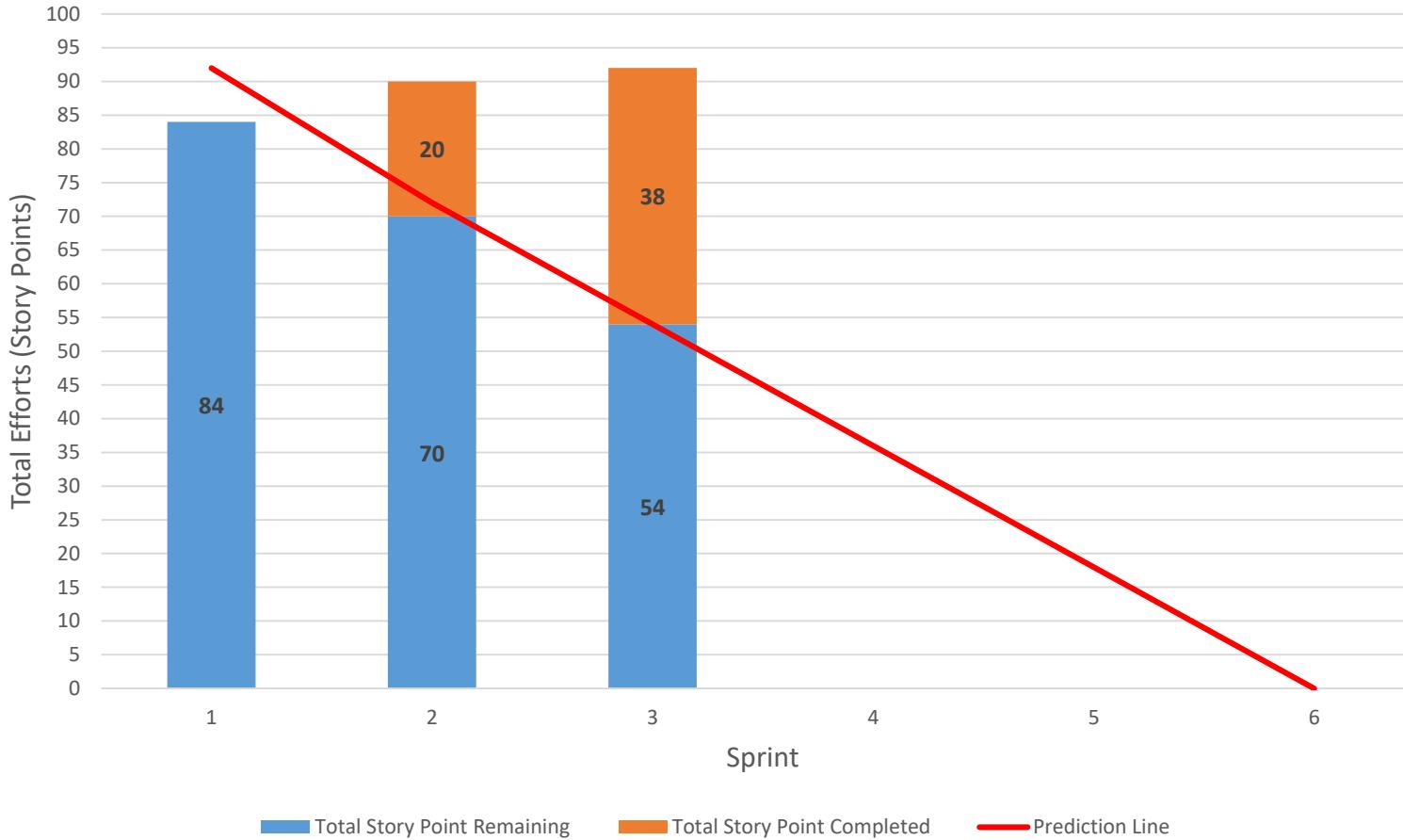
# Week 5 - Release Plan

Sprint 1 (20 / 20)	Sprint 2 (18 / 20)	Sprint 3 (18 / 20)	Backlog (16 user stories)
2 Adjustable font size	2 Book covers	2 Create an account	1 Sort material
3 <b>Audio connection</b>	3 Bookmarks	1 Add to Favorites list	2 Rate material
3 <b>Connect with remote user</b>	2 <b>Browse all material</b>	1 Add to To-Read list	1 Reset password
1 <b>Mobile product</b>	3 <b>Remotely access content</b>	3 Definitions	3 Browse previously read
1 Off-white background	3 Save material locally	1 Delete from Favorites list	2 Suggest material based on previously rated
3 <b>Page maintains fidelity</b>	3 Search for material	1 Delete from To-Read list	2 Suggest material based on previously read
2 <b>Pictures</b>	2 <b>Select material</b>	1 Log into account	3 Suggest material based on reading level
3 Portrait and Landscape		2 Test fluency and comprehension	3 Support voice recognition
2 <b>Read alone</b>		3 Reading level matches	3 Animated page turning
		3 Track improvements	3 Connect with a friend
			3 Connect nearby
			2 Friends list
			3 Video connections
			1 Highlight text
			2 Save highlights
			2 Synopsis page

## Legend

Risk	Priority
High	<b>High</b>
Moderate	Moderate
Low	Low

## Suhaimi Chan Total Work Done Release Burndown Chart



My interpretation of the burndown chart:

1. The total original requirement story point is 84.
2. At the end of sprint 1, six story points were added. So sprint 2 shows a total of 90 story points with 20 story points completed.
3. At the end of sprint 2, two story points were added. So sprint 3 shows a total of 92 story points with 38 story points completed.
4. Sprint 3 shows that the team velocity is held steady at 18 story points and on track with the prediction line.
5. It is expected all total 92 story points completed at the end of sprint 5, hence it shows 0 story points at sprint 6 on the prediction line.



## Retrospective Meeting Minutes

### **Sprint 2**

#### **What Went Well:**

- Completed all the expected user stories.
  - However, team was close to not completing them all.
- Team had all their tests written early.
  - Improvement from last sprint.
- Communication improved this sprint.
  - Standups were productive.
  - Everyone knew the status of the product at all times.

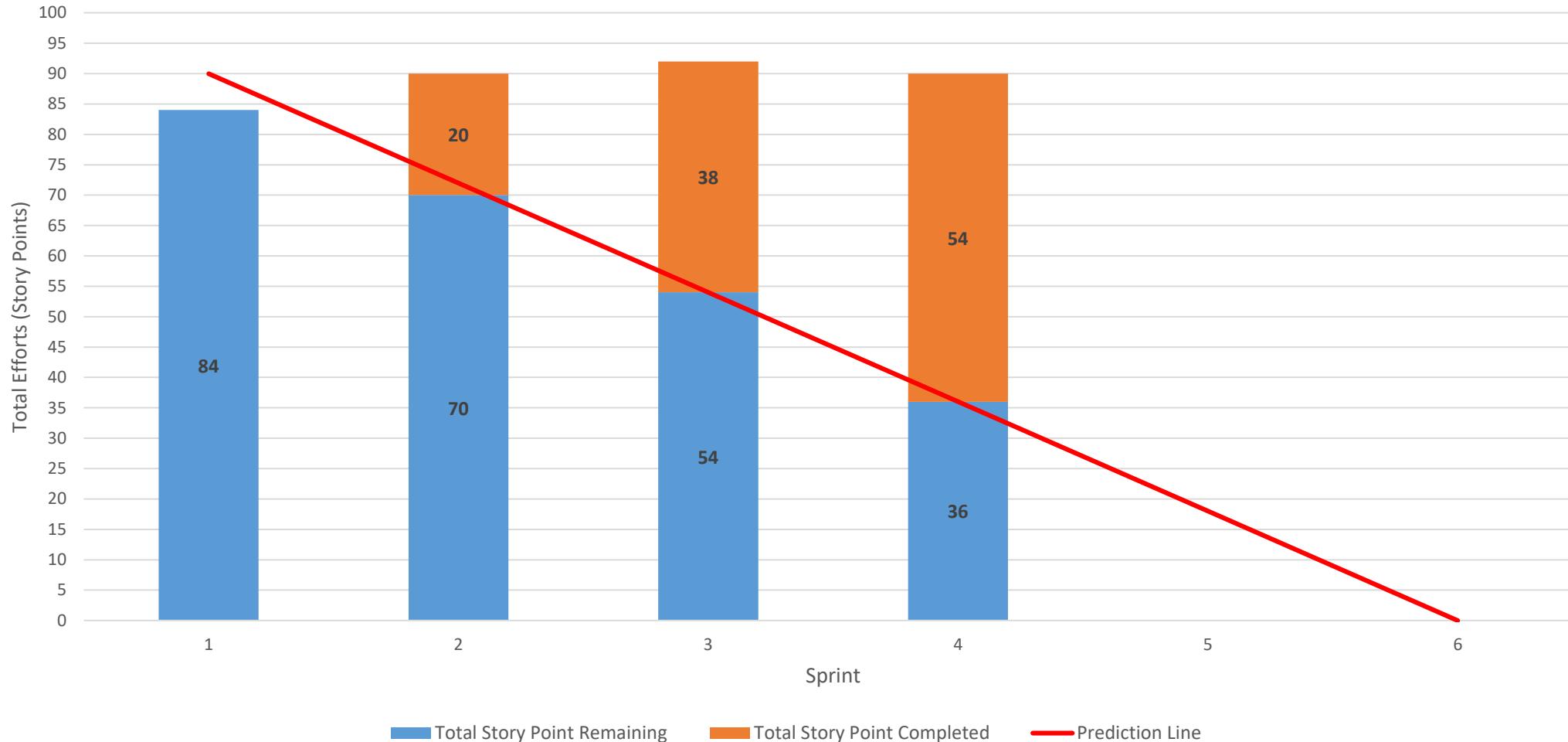
#### **What We Could've Done Better:**

- Looked at dependencies of user stories earlier.
  - Database connection should probably have been in the last sprint since so many things were dependent on it.
  - If something had gone wrong with that feature, the whole sprint would've been a failure.
  - Shouldn't face that issue in the next sprint (based on the user stories scheduled).
- Story points weren't accurate.
  - Was determined before sprint, so not detrimental.
  - Need to make sure team continues to do that.

#### **What We Can Improve On:**

- More pair programming.
  - Didn't do it very often this sprint.
  - Team is going to try self-assigning tasks in pairs next sprint to encourage more pair programming.
- Continue to improve communication.

## Suhaimi Chan Bodleian Project Total Work Done Release Burndown Chart (At the end of Sprint 3)



My interpretation of the burndown chart:

1. The total original requirement story point is 84.
2. At the end of sprint 1, six story points were added. So sprint 2 shows a total of 90 story points with 20 story points completed and 70 remaining story points.
3. At the end of sprint 2, two story points were added. So sprint 3 shows a total of 92 story points with 38 story points completed and 54 remaining story points.
4. At the end of sprint 3, two story points were removed. So sprint 4 shows a total of 90 story points with 54 story points completed and 36 remaining story points.
5. To be able to complete the project in sprint 5, the team must complete 18 story points in each remaining sprint (36 remaining story points for both sprint 4 and sprint 5) if no more additions.
6. It is expected all total 90 story points completed at the end of sprint 5, hence it shows 0 story points at sprint 6 on the prediction line.

# Suhaimi Chan Bodleian Project Retrospective

My reflection on this learning experience are:

## **Things that I have learned**

- Figure out the dependencies of each task before starting the task, so we can better prioritize the tasks to be put in each sprint
- We need to determine/design task for each user story to align with the goal of getting it right
- Write unit test, acceptance criteria and acceptance test first before writing code
- We need a really good open communication for team work to know the status of the project and where everyone is at the project as well as provide help when needed
- I like release burndown and iteration burndown charts as well as release planning and iteration planning so we know our progress and adjust accordingly
- Pair programming on major tasks may help speed things up
- Sprint retrospective
- Risk management plan

## **My favorite parts**

- Sprint Retrospective like Lesson learned when Alexa made a mistake as a loose cannon (working on sort criteria that was removed in sprint 3), so we can't just do what we think right without talking about it with everyone
- Daily standup meeting so we know what everyone did, what everyone will do, what went well, what went wrong, anything impeding/blocking the progress so we can ask and get/provide help to each other
- Open communication to get things done right and get help when needed.

## **The overall experience**

- Absolutely great experience. I learned a lot about scrum methodology from beginning to the end. I really like it and will implement it more in my work going forward.
- Awesome learning experience on daily standup meeting and how agile/scrum methodology works effectively and efficiently

## **Things we can improve**

- Figure out the dependencies of each task before starting the task, so we can better prioritize the tasks to be put in each sprint
- We need to determine/design task for each user story to align with the goal of getting it right
- Write unit test, acceptance criteria and acceptance test first before writing code

- More market research