Product Backlog and Sprint Backlog

for

Museum Mate Chatbot

Version 1.0

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Table of Contents

1. Introduction

The following document will outline all the requirements and product backlog of the Museum Mate Chat Bot for the Niagara on the Lake Museum. This section will contain all the basic information the user needs to know about who the document is written for, who the product will be used by, and basic understanding of what the product will provide to its users. The main objective of this document is to provide a backlog for developers to use to complete tasks that fit the product backlog which comes from the requirements.

1.1 Purpose of Project

The purpose of this project is to provide readers with insight on the details of what the chat bot project encompasses which satisfy and a detailed description of its requirements in order to effectively meet its intended purpose and provide a clear understanding of its features that will be examined at a high-level. The chat bot will be designed to be a tool that will be used to answer the questions of visitors regarding different topics that will be discussed in detail below. This chat bot will be named Museum Mate, where its purpose will be to provide customer service to consumers 24 hours/7 days a week. Providing customer service to consumers will increase their knowledge on the museum and its artifacts, which will ultimately increase education and satisfaction leading to more visitations that will help NOTL museum accomplish their overall mission, to promote and preserve local heritage by owning and operating the NOTL museum.

1.2 Application Roles and Terms Explained

The next section in this document contains the product backlog, where each row in the product backlog represents a user story which describes a goal of some sort of role. The roles in this application will be seen from either the user or the admin. When using the term "user", this will represent an individual using the application for chat bot inquiry purposes. Majority of the users of this application will be considered users, these are individuals who are visitors or potential visitors of the museum. Admin will be representing the museum, or the museum workers, who's goal will be to add or change irrelevant information that may change such as new artifacts, add events, or delete past events.

1.3 Product and Sprint Backlog Explained

The product backlog is written by the product owner. Each row in the table of the backlog represents a user story, which is a requirement that the application must fulfill. Each user story has a story number, a priority, user story-which represents the intention of the user in the form of "As a (role) I want (something) so that (benefit)", functionality to the system, sprint number and the member of the team who completes the task. Each sprint backlog has a user story, which is broken down into specific tasks to be completed, and epic is given a story point from 1 – 5 where 5 represents the most amount of effort and resources and 1 represents the least.

2. Product Backlog

2.1 Product Backlog

PBI	Priority	User Story	Functionality	Sprint	Task Owner
Product Backlog				
1	1	As a user or admin member, I want to be able to open the homepage so that I have can use the site as a user or as museum admin	⇒ Homepage ⇒ Option to click to use application as a user or admin	1	Fahad
2	2	As a user, I want to be able to be redirected to the chatbot upon user click selection	⇒ User taken to chatbot when click on "user"	1	David
3	2	As an admin member, I want to be redirected to a login page so that I can authenticate my identity	⇒ Admin taken to login page, accepting username and password, authentication accepted or denied	1	Fahad
4	2	As a developer, I want to be able to store all museum and research related information, so that it can be retrievable when asked for by the user	⇒ Database creation	1	Fahad , Dana
5	8	As a user, I want to have a simple but attractive user interface	⇒ Front end design	1 (will be done throughout)	Jordan
5	3	As a user, I want to be able to select which category I have	⇒ User able to select category		Dave, Jordan

		enquiries for (Events, Museum Info, Research, Directions)	they want to inquire about	1	(frontend)
6	3	As an admin, I want to be able to select which category I have updated information for (Events, Museum Info, Research, Directions)	⇒ Admin able to select category they need to update system for	1	Fahad, Dana
7	3	As a user, I want to be able to input a question regarding the Events category I selected and have an answer outputted	⇒ User able to seek answer they are looking for regarding Upcoming Events	2	Rob
8	3	As a user, I want to be able to input a question regarding the Research category I selected and have an answer outputted	⇒ User able to seek answer they are looking for regarding artifact Research	2	Rob
9	3	As a user, I want to be able to input a question regarding the Museum Info category I selected and have an answer outputted	⇒ User able to seek answer they are looking for	2	Dana, Sarah
10	4	As an admin, I want to be able to update information for the Events category and delete past and cancelled events, add new events so that information for user outputs is accurate and relevant	⇒ Admin able to update information of Events category, update information in the database, and is translated onto user side when questions asked	2	Rob, Fahad
11	5	As a user, I am able to ask for directions from point A to point B	⇒ Path finding algorithm implemented for	3	Rob, Fahad

		within the museum and a list of directions is outputted to solve my direction inquiries	directions category		
12	6	As a user, I am able to ask for directions from point A to point B within the museum and a list of directions is outputted to solve my direction inquiries	⇒ Virtual representation for directions	3	Dave, Jordan
13	7	As a user, when I ask a question, I would like a response in natural language in order to better my experience and increase efficient communication	⇒ Natural language interpreter implemented (GPT)	4	Dana, Rob
14	9	As a developer, I need to carry out testing to ensure application quality, and presentation	⇒ Testing ⇒ Presentation ⇒ Prepare for final release	5	All

2.2 Tracking Software

This team has chosen to use Jira as our software which will be linked with our GitHub. Tasks will be assigned on Jira to a member of the development team. Screen shots of the Jira software's use of planning and assigning tasks will be shown below:

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Software project

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⌄ MMC Sprint 1 30 Jan – 13 Feb (15 issues)   0 **0** **0**   Complete sprint   •••

▣	~~MMC-1~~	Create homepage for user chatbot or admin login	DONE ⌄	F
▣	MMC-2	Create page for chatbot space upon selection for user use	TO DO ⌄	JB
▣	MMC-18	Create working buttons for each broad category	TO DO ⌄	D
▣	MMC-19	Allow user to input question into the chatbot related to their question	TO DO ⌄	JB
▣	MMC-15	Create page for admin login upon selection for admin	TO DO ⌄	F
▣	MMC-16	Authenticate admin login	TO DO ⌄	F
▣	MMC-21	Create database for each category	TO DO ⌄	DD
▣	MMC-22	Input information for each category into the database ✏ + Epic Add epic	- TO DO ⌄	SH •••
▣	MMC-23	String search to capture exhibit names from user input	TO DO ⌄	DD
▣	MMC-24	Client page for museum admin to update database for each category	TO DO ⌄	D
▣	MMC-30	Fine tuning development and research	TO DO ⌄	RM
▣	MMC-31	GPT research and funding	TO DO ⌄	RM
▣	MMC-32	Map and museum layout defined	TO DO ⌄	MS
▣	MMC-33	Gather information for population	TO DO ⌄	MS
▣	MMC-34	Restyling front end overtime	TO DO ⌄	JB

+ Create issue

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⌄ Backlog (13 issues)   0 **0** **0**   Create sprint

▣	MMC-3	Create homepage displaying option to use as a user or admin	TO DO ⌄	F
▣	MMC-4	For admin, redirect to admin login page	TO DO ⌄	F
▣	MMC-5	For admin, authenticate login	TO DO ⌄	DD
▣	MMC-6	For user, redirect to chatbot page	TO DO ⌄	JB
▣	MMC-7	For users, be able to select which category they have inquiries for	TO DO ⌄	DB
▣	MMC-8	For admin, be able to select which category they have updated information for	TO DO ⌄	F
▣	MMC-9	Allow users to input a question about Events and have an answer outputted	TO DO ⌄	JB
▣	MMC-10	Allow users to input a question about Research and have answer outputted	TO DO ⌄	SH
▣	MMC-11	Allow users to input questions about Museum and have answer outputted	TO DO ⌄	DD
▣	MMC-12	Allow users to ask for direction from and to two points in the museum	TO DO ⌄	DB
▣	MMC-13	Provide users with directions from provided point and destination	TO DO ⌄	JB
▣	MMC-14	Provide users visual representation of directions to destination	TO DO ⌄	SH
▣	MMC-35	Attractive, refactored, and simple UI	TO DO ⌄	JB

+ Create issue

3. Sprint Backlog

3.1 Sprint Backlog #1

Duration: Jan 31st – Feb 13th

Sprint Backlog					
Sprint Backlog Number	Priority	User Story	Spring Tasks	Task Owner	Story Point (1-5)
1	1	As a user or admin member, I want to be able to open the homepage so that I have can use the site as a user or as museum admin	1. Create homepage for user chatbot or admin login 2. Create working buttons for each broad category	Fahad	2
2	2	As a user, I want to be able to be redirected to the chatbot upon user click selection	1. Create page for chatbot space upon selection for user use 2. Allow user to input question into the chatbot related to their question	David, Jordan	1
3	3	As an admin member, I want to be redirected to a login page so that I can authenticate my identity	1. Create page for admin login upon selection for admin 2. Authenticate admin login	Fahad, Dana	3
4	4	As a developer, I want to be able to store all museum and research related information, so	1. Create database for each category 2. Input information for each category into the database	Fahad, Dana, Sarah	4

		that it can be retrievable when asked for by the user	3. Populate database 4. Test database accuracy		
5	5	As a user, I want to be able to select which category I have enquiries for (Events, Museum Info, Research, Directions)	1. Create new page with chatbot for each category 2. Associate chatbot page with database	Jordan (Front End), Dave	2
6	6	As a developer, I need to have information to retrieve answers from database	1. Fine tuning development and research 2. GPT research and funding 3. Gather information for database population 4. Database population 5. Museum Map layout defined	Rob, Maheen (map layout + GPT funding)	5

3.2 Sprint Backlog #2-5

Duration Sprint 2: 15 Feb-28 Feb
Duration Sprint 3: 1 Mar – 14 Mar
Duration Sprint 4: 15 Mar – 28 Mar
Duration Sprint 5: 29 Mar – 11 Apr

It is important to note that the backlog of each of these sprints will be defined in the planning stage and assigned to development team members. Each sprint backlog will be created ad updated on Jira. The scrum master is responsible for checking to see the progress of each tasks and coordinating scrum meetings (held Tuesdays and Thursday 2:30-4:00), and that requirements are being met.