### Team REX

COSC 4P02

### **AGENDA**

- Introduction
- Development Method
- Sprint Overview
- Tools
- Challenges and Learnings
- Future Development
- Development Team
- Application Demo
- •Q&A

## Development Team

Name	Role	Brock ID
Parth Bhaveshbhai Patel	Product Owner/Developer	pp1900
Akshar Patel	Product Owner/Developer	ap18zr
Naitik Hareshbhai Chovatiya	Scrum Master/Developer	nc18us
Aum Pandya	Developer	ap19xt
Anishka Shetty	Developer	as18cq
Darshakkumar Bambharoliya	Developer	db18hn
Sneh Patel	Developer	sp1800

### Introduction

- Created an AR app with a goal of improving the experience of visiting museums
  - More enjoyable, more educational
- Allows users to use their device to view more information about museum artifacts through pop-up cards along with interactive 3D visuals of artifacts and realistic scenes to enhance the museum experience



- Incorporated an accessibility feature –
   Text-to-Speech, to allow users to listen to text on app
- Target audience all visitors
  - Easy to use
  - Provides artifact information directly on user's device

### Development Method: Scrum

- Used the Scrum methodology for our app
   Agile incremental development process
- An iterative approach
  - Flexible
  - Constant development, evaluation, and testing
- Incremental delivery
  - Allowed us to receive feedback and make any needed corrections earlier on and throughout the process as we were able to see working versions of the app often
- For a mid-sized AR project like ours, Agile was the best approach to increase transparency and accountability between team members and customers.
- Scrum is easy to scale
  - Allows team to focus on tasks for each time period
  - Reach goals on a timely basis

# Sprint Overview: 6 (2-week) Sprints

### **Sprint Planning**

- During plannings, the product owners and development team reviewed previous work and product backlog
- The product owner created tasks for the next sprint and assigned them to the team

### **Daily Stand-Up**

• Daily 30-minute meeting to discuss progress and any blockers needing assistance

# Sprint Overview: 6 (2-week) Sprints

#### **Sprint Demo**

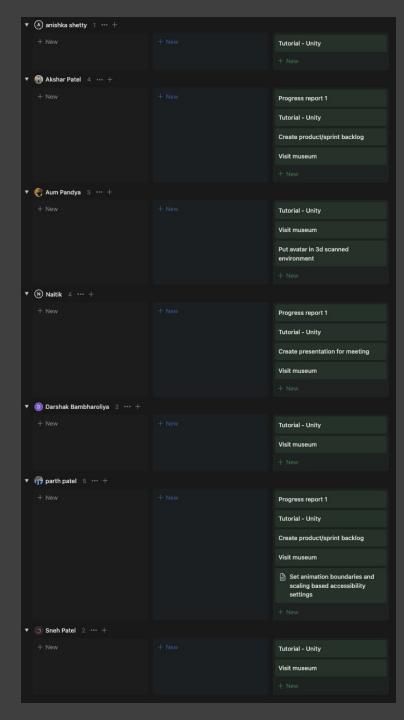
- After each sprint, we held a sprint demo meeting to showcase sprint work and receive feedback to improve
  - Attended by whole team
- Regular sprint demos helped us achieve our goals and ensure stakeholder requirements were met

### **Sprint Retrospective**

- Held on last day of the sprint and attended by whole team
- To bring up any issues and monitor the progress during ending sprint to make improvement for upcoming sprint

	Tools	Main purpose of the tool	_
N	Notion	To keep track of sprint planning and create the sprint/product backlog	
	Slack	For daily communication and progress updates	#
	Google Meet	Used for daily scrum meetings	
	GitHub	Used for version control, collaboration, and continuous integration and deployment of the project	

# Notion Sprint 1



# Identifying our Blockers

#### High learning curve for SDKs

- Started our project with React Native and Unity
  - Later, we realized that integration of Unity and React Native can be challenging and has a high learning curve
  - Had to change our development platform from React Native to Unity alone

### Time management and availability

- Team had different courses and work schedules which made it difficult to find times that worked for everyone
- Sprint tasks were not always met on schedule sometimes, during midterm season for example.
- Lead to things being pushed to next sprints pile up of work at times

### Identifying our Blockers

#### Delay due to unavailability of resource

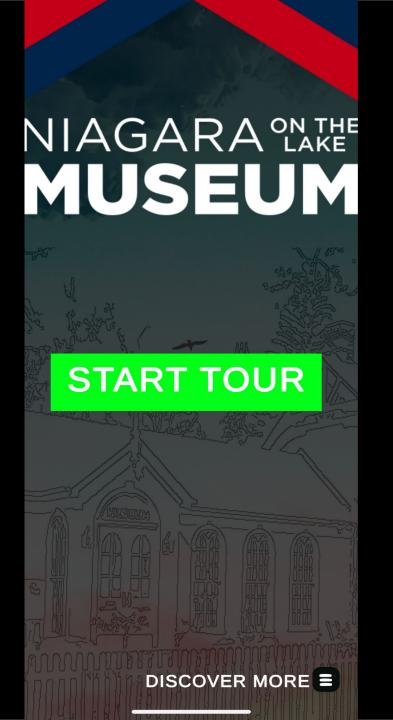
- Our AR project required to scan 3D artifacts of the museum
  - Needed to book an appointment with museum manager which was cancelled
    - Delayed our process for one week

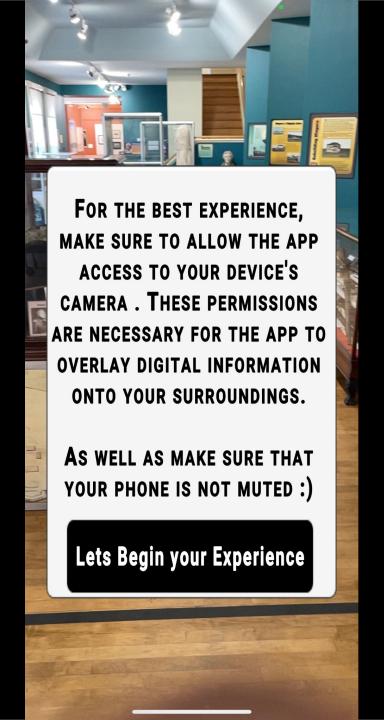
#### Lack of stakeholder engagement and feedback

- Difficult to know if the project was meeting requirements or expectations without feedback from stakeholders
  - May lead to delays in the project's progress

### Lessons Learned

- It is important to have effective communication with all stakeholders prior to the starting the project
  - Avoid delays in completion of required tasks
- Manage time effectively
- Review project plan often and adjust it accordingly
  - To avoid any potential blockers in the development process
- To guarantee a quick learning curve for the team, adequate training and support should be offered for any new tools or technologies used in the project









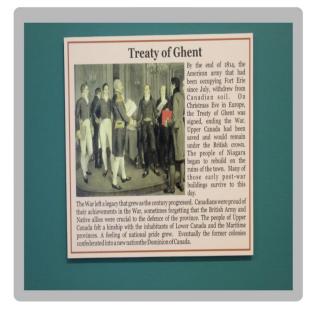
Treaty of Ghent (1)

NIAGARA-ON-THE-LAKE MUSEUM

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FOR MORE INFO YOU CAN CLICK THIS BUTTON TO

**HELP WITH THAT:**)



#### **Treaty of Ghent**

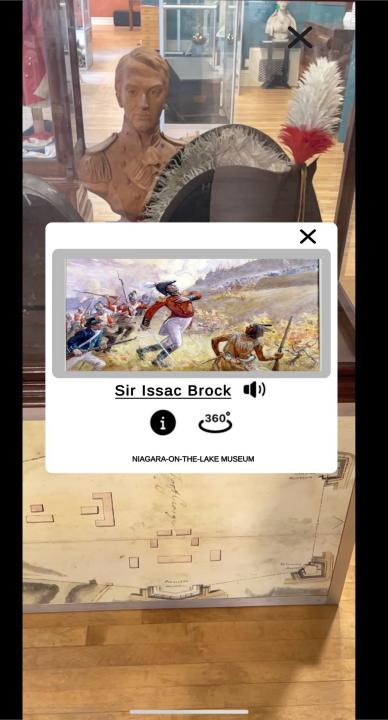
The Treaty of Ghent was signed on December 24th, 1814 in Ghent, Belgium. The treaty was signed by Great Britain and the United States to end the War of 1812.

Diplomats were eager to sign for peace after a prolonged war due to slow communications regarding peace agreements.

In this peace meeting, Great Britain agreed to give up claims of the Northwest Territory and both Great Britain and the United States pledged to make efforts in ending the slave trade.

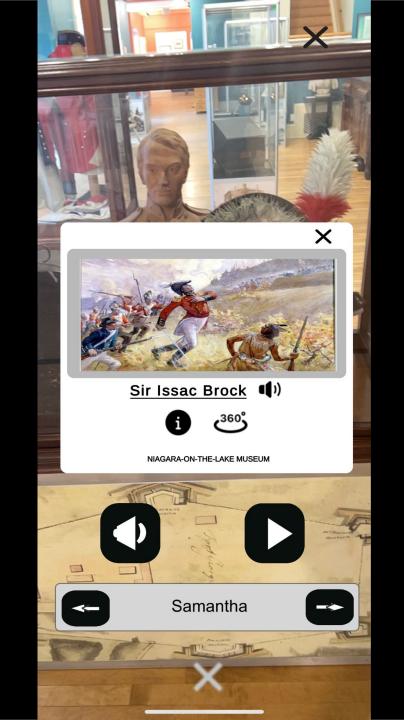








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## **Application Demo**



A&O