

Team Undefined

# Main Features

- Responsive system: Each component is run on a unique thread, so the user/admin requests get an appropriate response.
- Admin page: To see component status, test results and Scraped data.
- Additional info on where the Ai's answer came from.

# Links

**GitHub**

<https://github.com/d3v3lopingCod3/Cosc4po2ChatbotProject>

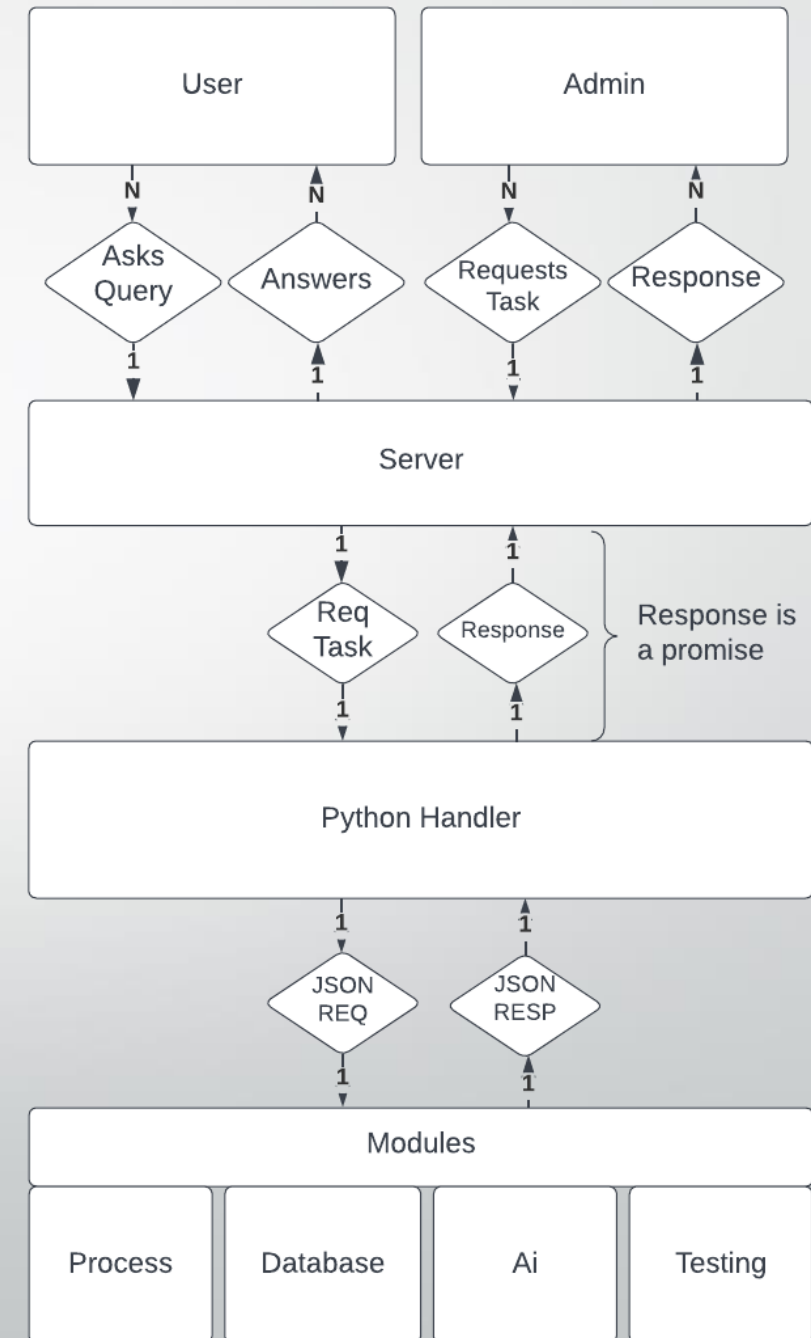
**Product Backlog**

[https://miro.com/app/board/uXjVOVYcNxA=/?invite\\_link\\_id=823826101299](https://miro.com/app/board/uXjVOVYcNxA=/?invite_link_id=823826101299)

**Progress Reports +  
Project Proposal**

<https://github.com/d3v3lopingCod3/Cosc4po2ChatbotProject/tree/main/Documents>

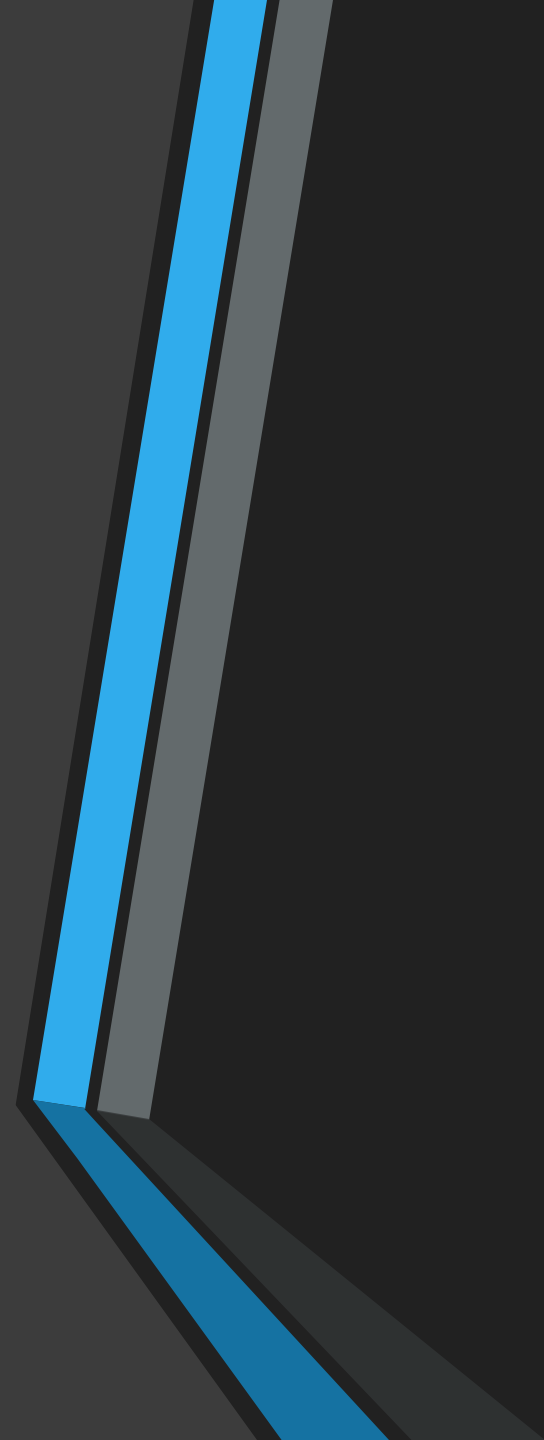
# System Entity Relationship Diagram



# Developmental Team

Name	Role	Id	Brock Email	Github
Eddy Su	Scraping	6459705	es17zj@brocku.ca	eddysu123@gmail.com
Manvendrasinh Rana	Scraping	6137228	mr16gr@brocku.ca	manvendrarana@hotmail.co
Aman Braich	Front-End	6511679	ab18ew@brocku.ca	braich_aman3@yahoo.ca
Raghav Bhardwaj	Front-End	6548580	rb18nr@brocku.ca	raghavmanc@gmail.com
Sawyer Fenwick	Back-End	6005011	sf15zx@brocku.ca	sawyerfenwick@gmail.com
Sager Kudrick	Back-End	5919170	sk15xm@brocku.ca	sagerkudrick@hotmail.com
Rikveet Singh Hayer	AI, Scraping	6590327	rh18vo@brocku.ca	rh18vo@gmail.com

# Agile Software Development



# Agile Development Methods

- Maintain Simplicity
  - Focus on simplicity in both the software being developed and in the development process
- People, Not Process
  - Skills of the Dev Team should be recognized and exploited
  - Team Members should be left to develop their own ways of working without prescriptive processes
- Incremental Development
  - The Software is developed in increments, with the customer specifying the requirements to be included in each increment

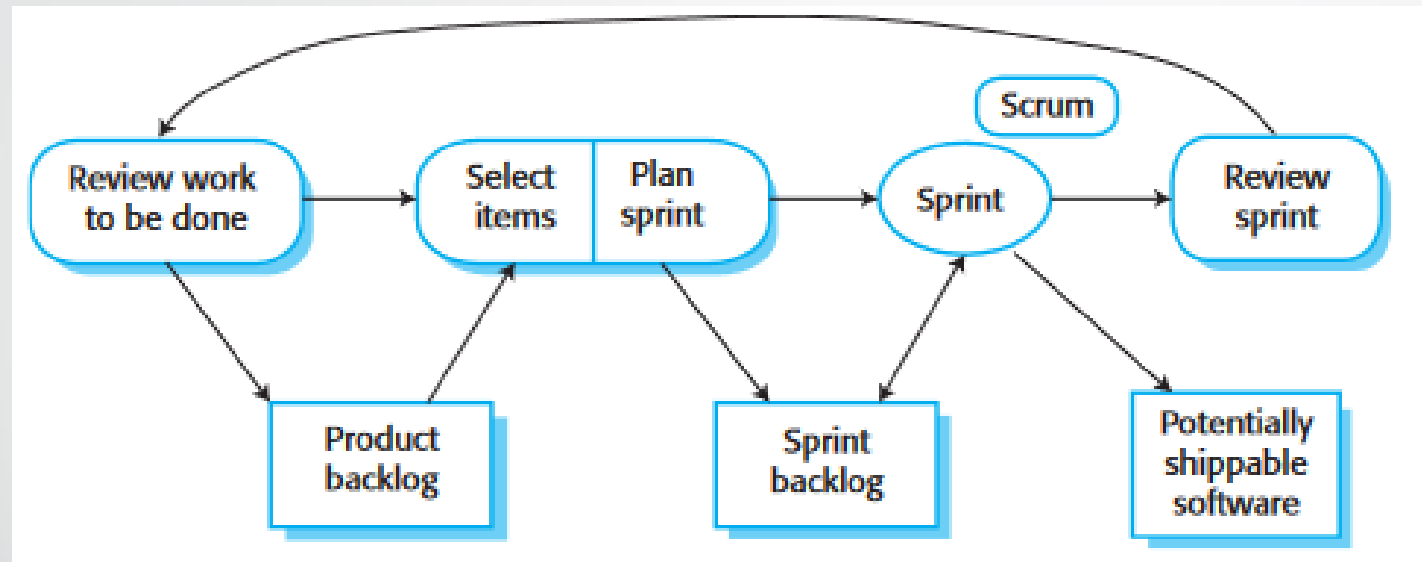
**"Our highest priority is to satisfy the customer through early and continuous delivery of valuable software."**  
(<http://agilemanifesto.org/principles.html>, 2001)

# Agile Development Techniques

- Simple Design
  - Enough design is carried out to meet the current requirements and no more
- Pair Programming
  - Developers work in pairs, checking each other's work and providing the support to always do a good job
- Collective Ownership
  - Pairs of developers work on all areas of the system so that no islands of expertise develop and all the developers take responsibility for all of the code. Anyone can change anything.
- Incremental Planning
  - Requirement are recorded on story cards and the stories to be included in a release are determined by the time available and their relative priority. The developers break these stories into development tasks.
- Refactoring
  - Reorganization of class hierarchy to remove duplicate code, tidying up and renaming of attributes and methods, and the replacement of similar code sections.

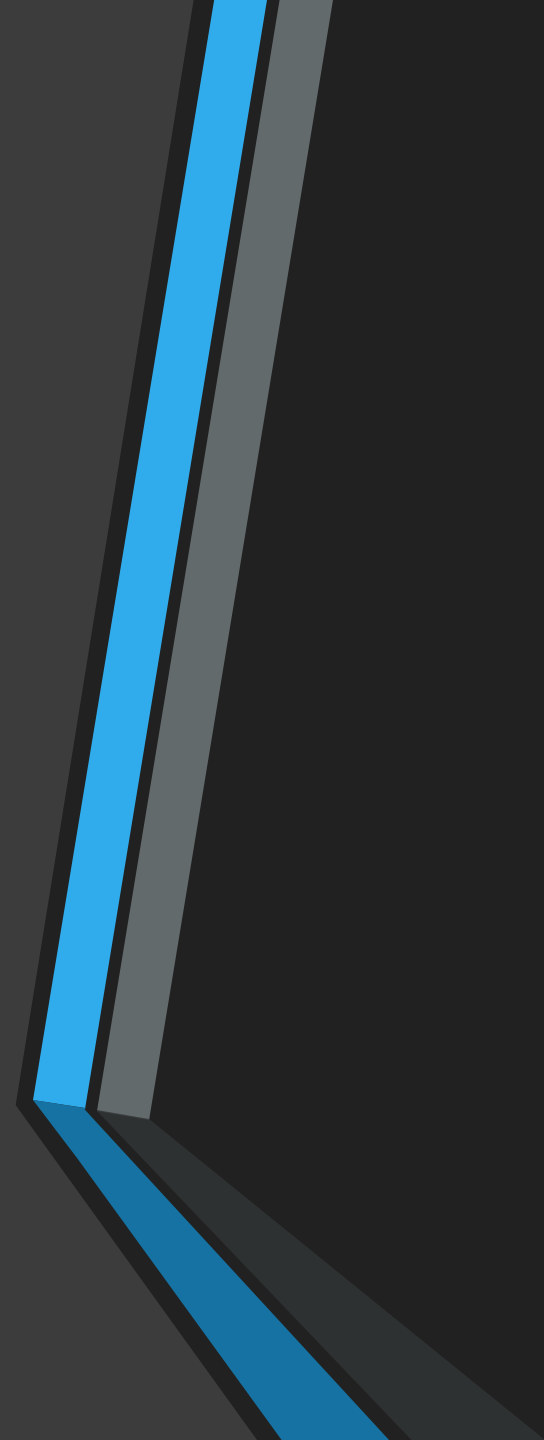


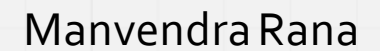
# Agile Project Management



Scrum Sprint Cycle

# Backlogs





# Stories Management

## Rough Stories

Rough stories directly copied from the s...

[illegible]

## User Stories

User Story Map

```

graph TD
    subgraph TopRow [ ]
        direction LR
        F[Functionality]
        NA[New activity]
        AA[As an admin I want...]
    end

    subgraph Row1 [ ]
        direction LR
        R1_1[As a user I want the interface to have]
        R1_2[As a user interacting with chat bot I want]
        R1_3[As an admin I want]
    end

    subgraph Row2 [ ]
        direction LR
        R2_1[I want the chat with chat-bot in text form]
        R2_2[Information about athletes (Birth day, hometown, sport, gender, age, height, weight, province they are competing for, team, events they will have competed in, number of medals)]
        R2_3[I want to go to the webpage where tickets are purchased with one click of a button]
    end

    subgraph Row3 [ ]
        direction LR
        R3_1[I want to be able to see which version of chat bot I am talking with]
        R3_2[Information about games (location, start time, teams competing)]
        R3_3[Good Css]
    end

    subgraph Row4 [ ]
        direction LR
        R4_1[To have Identifier of what version I am using (Brook or Canada Games)]
        R4_2[Information about all the sports being played (Day-wise, Week-wise, and in general)]
        R4_3[As an admin I need the bot to have access to cloud based database.]
    end

    subgraph Row5 [ ]
        direction LR
        R5_1[I should always be able to get access to some relevant info to the question]
        R5_2[Information about the location of the games if we aren't using the transit]
        R5_3[The user to be able to access the bot from both PC and Mobile]
    end

    subgraph Row6 [ ]
        direction LR
        R6_1[I should be able to access the bot on both pc and mobile devices]
        R6_2[I want to see what transportation is available to get to an event]
        R6_3[The chat to greet the user on the start of the session]
    end

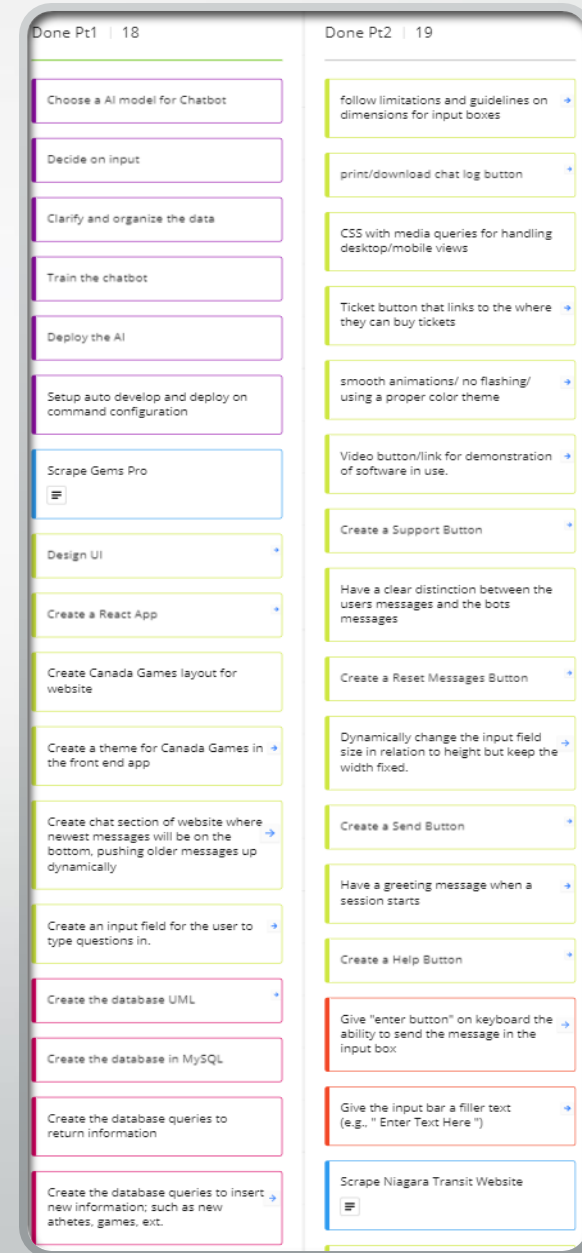
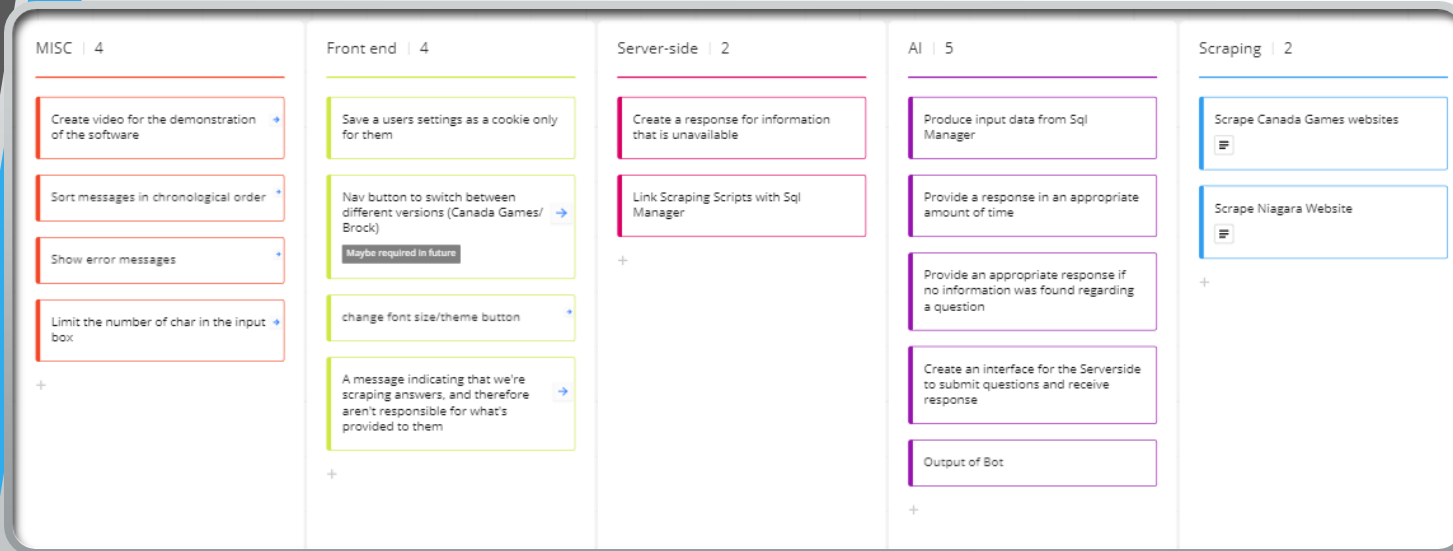
    subgraph Row7 [ ]
        direction LR
        R7_1[To be able to type my questions]
        R7_2[Information about scheduling for different games (daily and longer-term), time, dates and locations]
        R7_3[I want the messages to be sorted by time sent]
    end

    subgraph Row8 [ ]
        direction LR
        R8_1[To have clear differentiation between]
        R8_2[Chat text font size have different themes and change of font size.]
    end

    R1_1 --> R2_1
    R1_2 --> R2_2
    R1_3 --> R2_3
    R2_1 --> R3_1
    R2_2 --> R3_2
    R2_3 --> R3_3
    R3_1 --> R4_1
    R3_2 --> R4_2
    R3_3 --> R4_3
    R4_1 --> R5_1
    R4_2 --> R5_2
    R4_3 --> R5_3
    R5_1 --> R6_1
    R5_2 --> R6_2
    R5_3 --> R6_3
    R6_1 --> R7_1
    R6_2 --> R7_2
    R6_3 --> R7_3
    R7_1 --> R8_1
    R7_2 --> R8_2
    R7_3 --> R8_2
  
```

The diagram illustrates the relationship between user requirements and system goals. It is structured as a grid of boxes. The top row contains three boxes: 'Functionality', 'New activity', and 'As an admin I want...'. Below these are three rows of user requirements, each with a corresponding system goal. The requirements are: 'As a user I want the interface to have...', 'I want to be able to see which version of chat bot I am talking with', and 'To have Identifier of what version I am using (Brook or Canada Games)'. The system goals are: 'Information about athletes (Birth day, hometown, sport, gender, age, height, weight, province they are competing for, team, events they will have competed in, number of medals)', 'Information about games (location, start time, teams competing)', and 'Information about all the sports being played (Day-wise, Week-wise, and in general)'. The diagram also includes a 'Feedback' loop from the bottom row of requirements back to the top row of requirements.

# Product Backlog



# Sprint Backlog

## Sprint Backlog

### Sprint 1

### Sprint 2 (18 Feb)

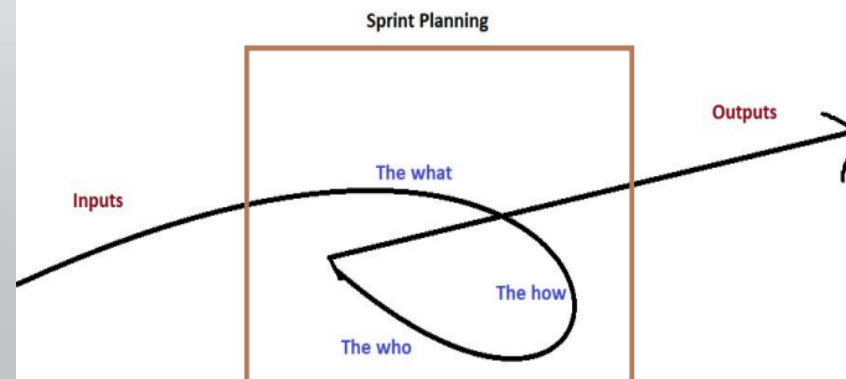
### Sprint 3 (4th Mar)

### Sprint 4 (18 Mar)

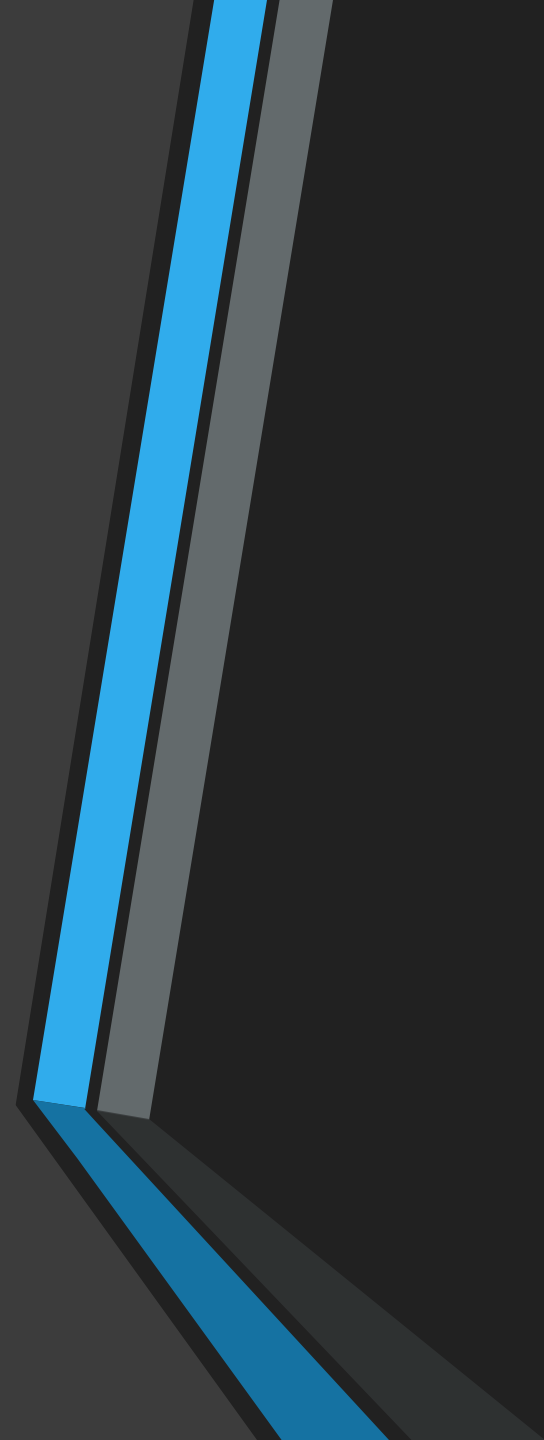
### Sprint 5 (1 Apr)

### Sprint 6 (15 Apr)

Sprints: 0 In progress: 0 Done: 7	Sprints: 0 In progress: 0 Done: 8	Sprints: 0 In progress: 0 Done: 15	Sprints: 0 In progress: 0 Done: 11	Sprints: 0 In progress: 0 Done: 3	Sprints: 2 In progress: 8 Done: 13
<ul style="list-style-type: none"><li>Choose an AI</li><li>Train the chatbot</li><li>Clarify and</li><li>Decide on input</li><li>Design UI</li><li>Create the</li><li>Create the</li></ul>	<ul style="list-style-type: none"><li>Create a React</li><li>Create Canada</li><li>Create an input</li><li>Have a clear distinction</li><li>Create chat section of website where newest</li><li>Create the database queries</li><li>Create the database queries</li><li>Create the</li></ul>	<ul style="list-style-type: none"><li>Have a greeting</li><li>Create a Reset</li><li>Create a Send</li><li>CSS with media</li><li>smooth</li><li>Create a Support</li><li>Ticket button that</li><li>Create a Help</li><li>Dynamically change the input</li><li>follow limitations</li><li>Deploy the AI</li><li>Setup auto</li><li>Scrape province</li><li>Scrape sports</li><li>scrape athlete</li></ul>	<ul style="list-style-type: none"><li>print/download</li><li>Video button/link</li><li>Add a link to</li><li>Add a link to</li><li>Add A link to</li><li>Scrape Gems Pro</li><li>Scrape Canada</li><li>Scrape Niagara</li><li>Scrape Niagara</li><li>Create an interface for the</li><li>Human readable</li></ul>	<ul style="list-style-type: none"><li>Provide a</li><li>Create a response</li><li>Provide an appropriate</li></ul>	<ul style="list-style-type: none"><li>test with multiple</li><li>Create video for</li><li>Implement tests</li><li>create Test cases</li><li>create a method in back-end to get</li><li>fix the output of</li><li>create a method</li><li>create a</li><li>create tests cases</li><li>create tests cases</li><li>create a testing</li><li>Link Scraping</li><li>Convert text data</li><li>Implement multi-</li><li>create tests cases</li><li>create a 404 page</li><li>create an admin</li><li>add login system</li><li>Add capability to</li><li>add a indication if</li><li>change font</li><li>A message indicating that we're scraping</li><li>Create dashboard</li></ul>



# Communication Mediums



TEXT CHANNELS

# general

# github

# front-end

# database

# scraping

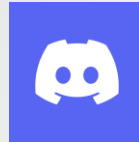
# ai

# testing

VOICE CHANNELS

Weekly Scrum

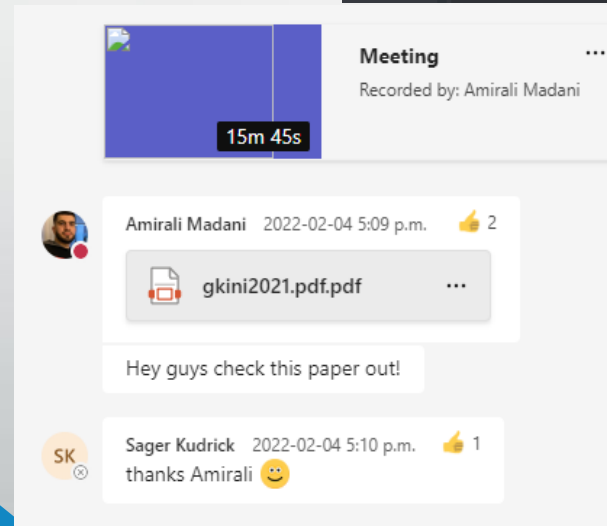
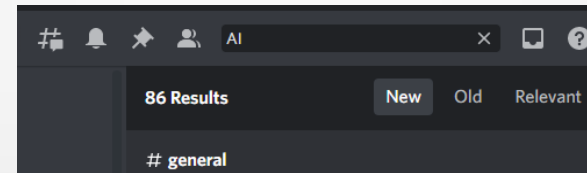
# Communication Software



Discord



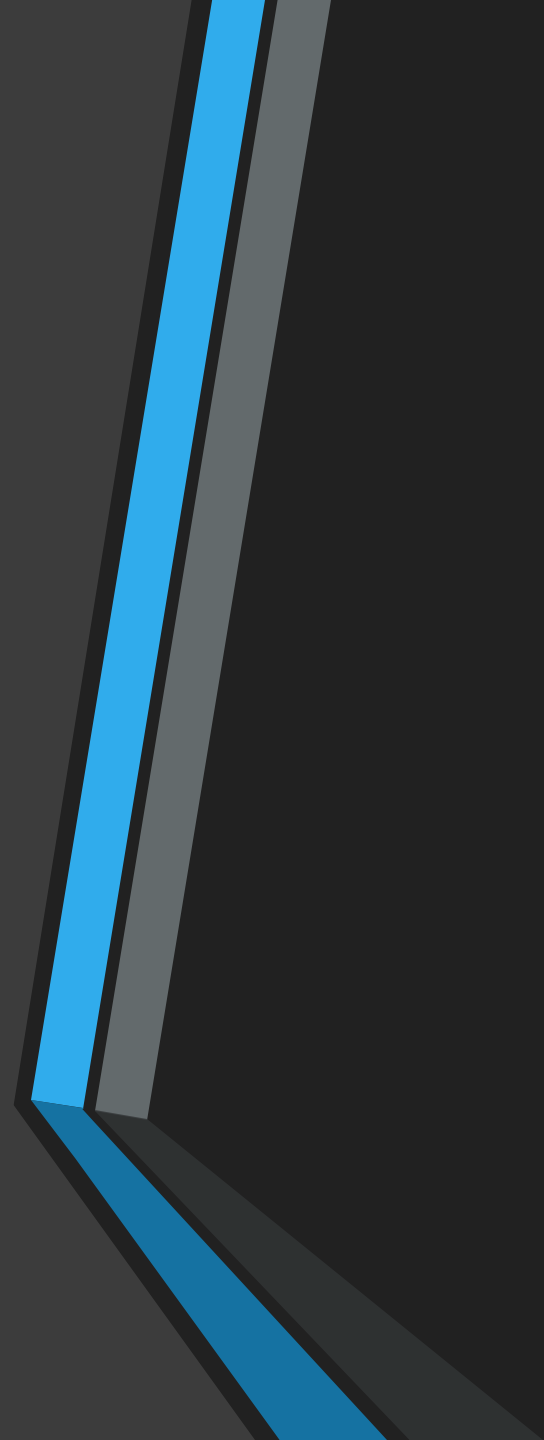
Microsoft Teams/OneDrive



General		
+ New ▾		
+ Upload ▾		
Sync		
Copy link		
Download		
+ Add cloud storage		
Open in SharePoint		
Documents > General		
Name ▾	Modified ▾	Modified By ▾
Meetings	January 14	Eddy Su
Recordings	January 14	Eddy Su
FinalPresentation.pptx	A few seconds ago	Manvendra Rana
FinalReportDocumentation.docx	April 1	Manvendra Rana
kjndc.json	January 31	Rikveet Singh Hayer
Progress Report 2.docx	March 27	Manvendra Rana
Progress Report.docx	February 28	Sawyer Fenwick
Project proposal .docx	January 19	Manvendra Rana
SprintProductBacklogs.docx	January 17	Raghav Bhardwaj



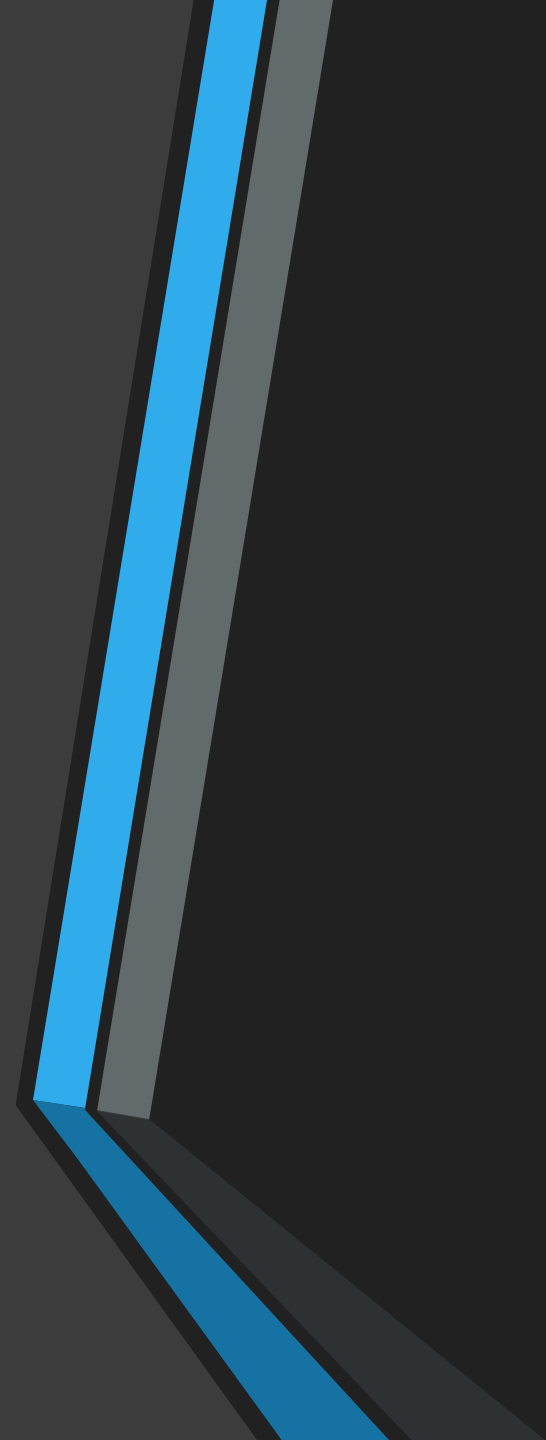
# Meetings



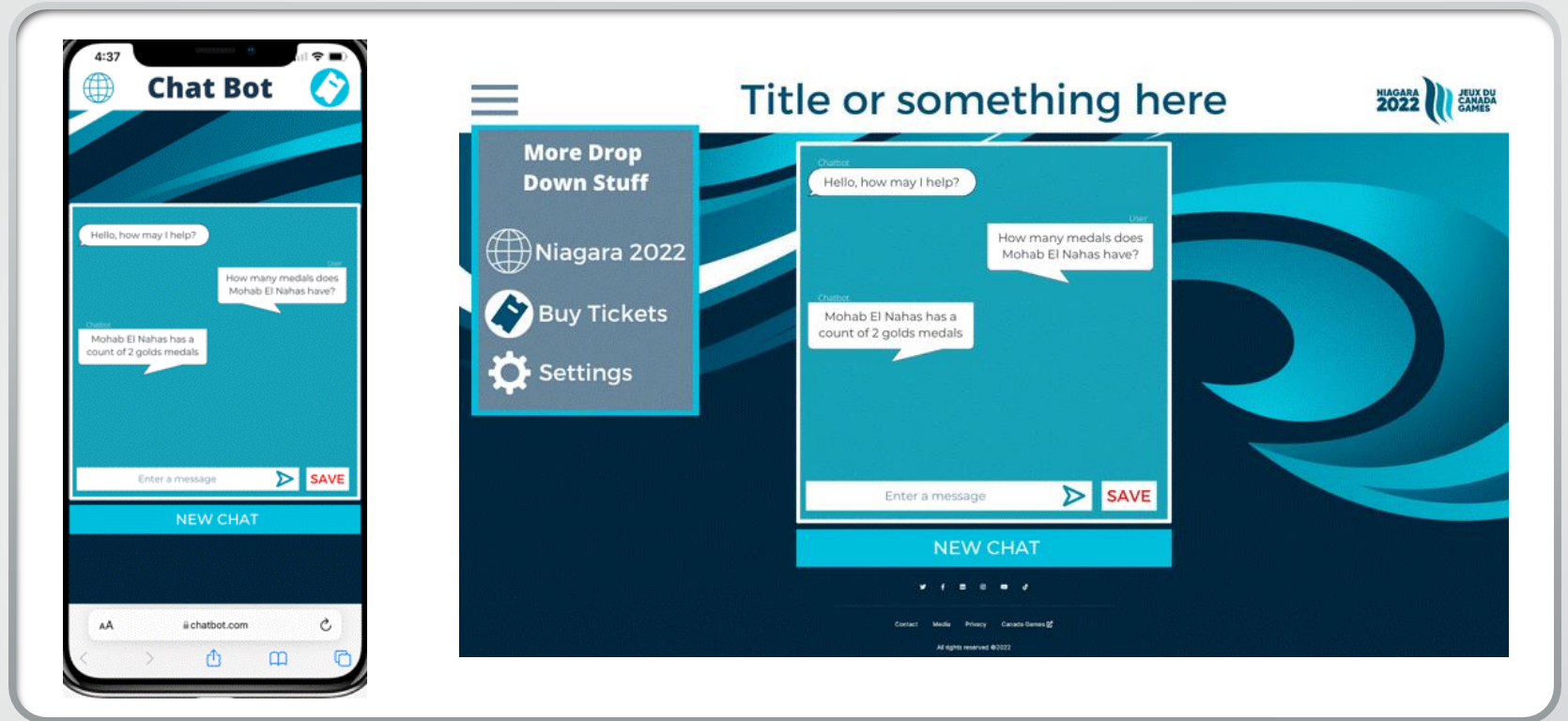
# Meetings

- Meetings on Tuesday and Friday
- Main agenda:
  - Choosing tasks from backlog to work on during sprint
  - Occasional informal 1 on 1 meetings between scrum master, team members

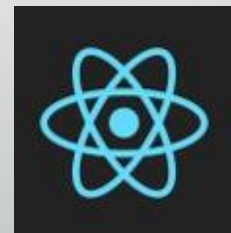
# Front-End



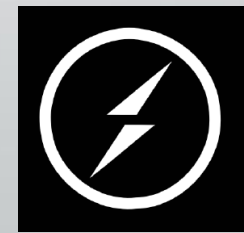
Mockup → Final



Sprint 1 → Sprint 6

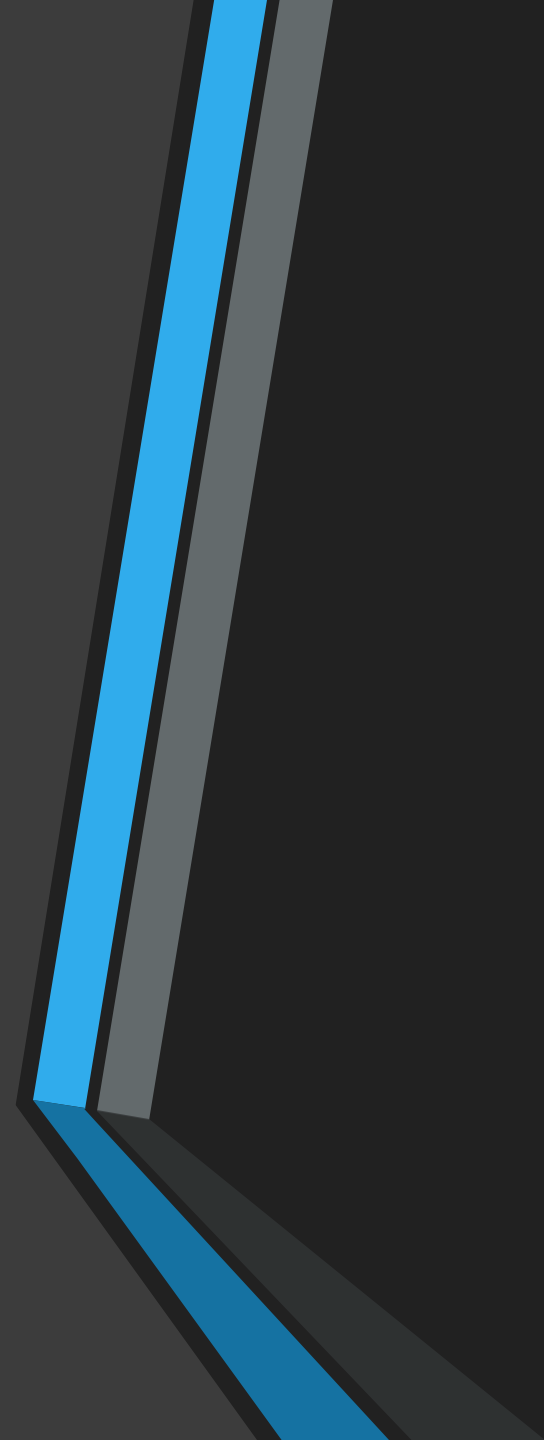


React JS



Socket io

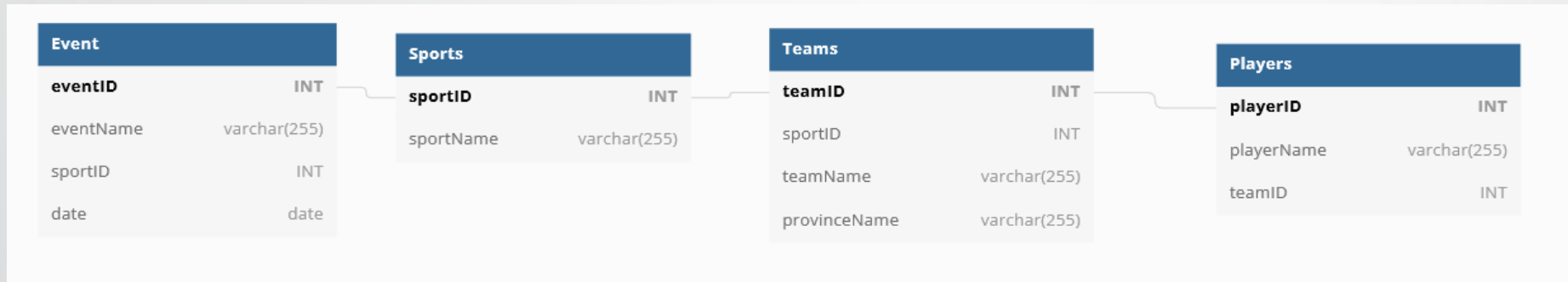
# Back-End



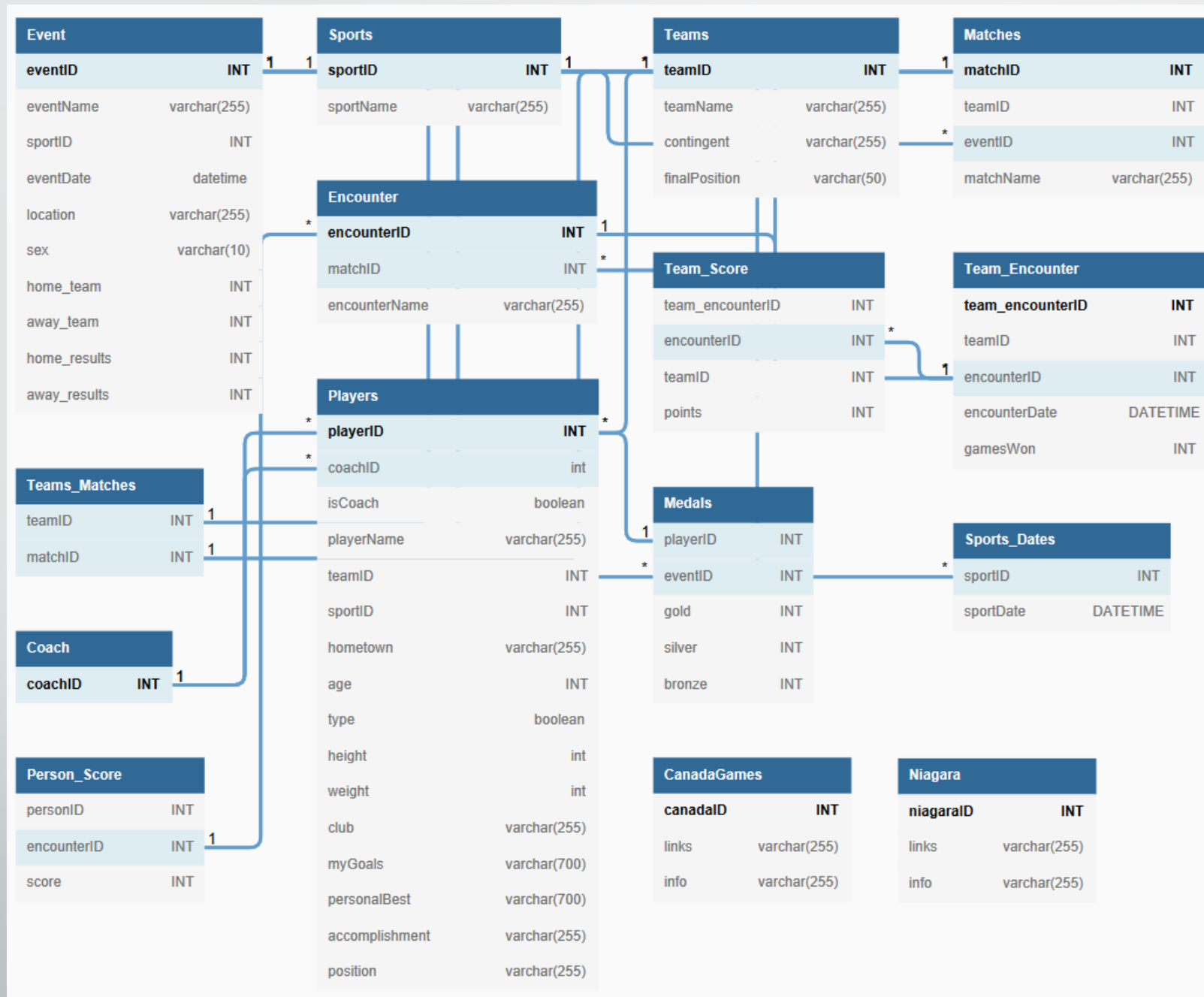
The image features a large, abstract geometric shape on the left side, composed of several nested, angular forms in shades of blue, white, and grey. The word "Database" is written in a clean, black, sans-serif font, positioned in the lower right quadrant of the image.

Database

# SQL Database



Version 1 DB





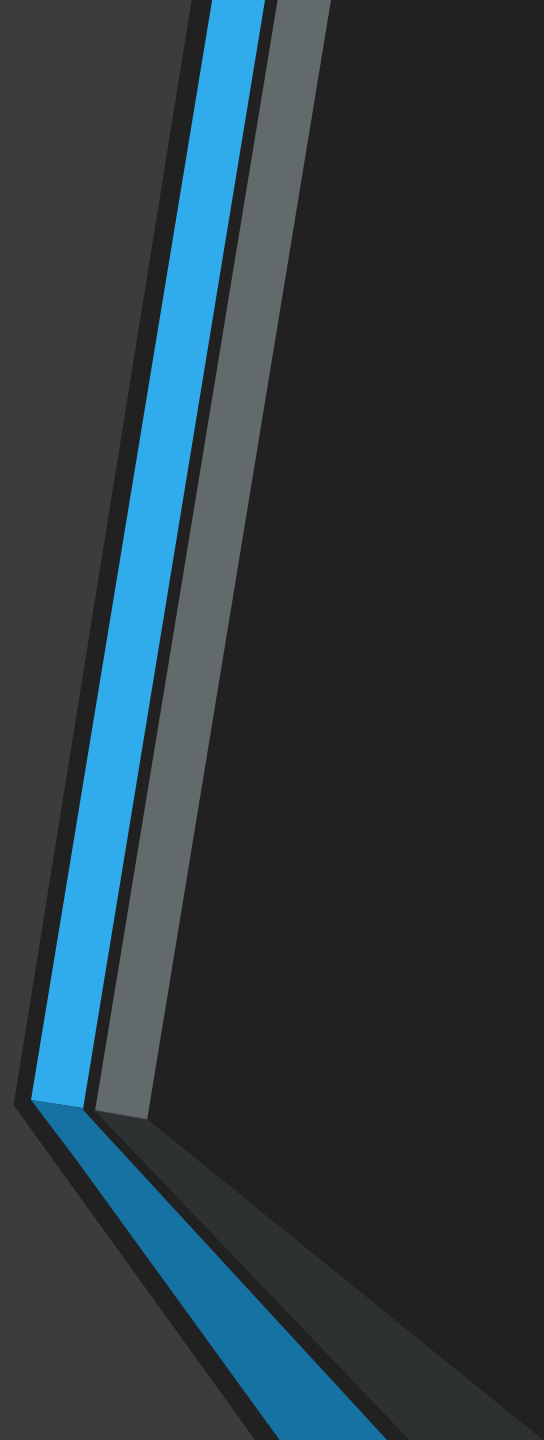
<table><tr><th colspan="2">Sports</th></tr><tr><th>id</th><th>INT</th></tr><tr><td>sport</td><td>varchar(255)</td></tr></table>	Sports		id	INT	sport	varchar(255)	<table><tr><th colspan="2">Baseball</th></tr><tr><th>id</th><th>INT</th></tr><tr><td>date</td><td>varchar(255)</td></tr><tr><td>time</td><td>varchar(255)</td></tr><tr><td>event</td><td>varchar(255)</td></tr><tr><td>event type</td><td>varchar(255)</td></tr><tr><td>game</td><td>INT</td></tr><tr><td>location</td><td>varchar(255)</td></tr><tr><td>home</td><td>INT</td></tr><tr><td>away</td><td>INT</td></tr><tr><td>home score</td><td>INT</td></tr><tr><td>away score</td><td>INT</td></tr></table>	Baseball		id	INT	date	varchar(255)	time	varchar(255)	event	varchar(255)	event type	varchar(255)	game	INT	location	varchar(255)	home	INT	away	INT	home score	INT	away score	INT	<table><tr><th colspan="2">Basketball</th></tr><tr><th>id</th><th>INT</th></tr><tr><td>event</td><td>varchar(255)</td></tr><tr><td>sub_event</td><td>varchar(255)</td></tr><tr><td>game</td><td>INT</td></tr><tr><td>datetime</td><td>datetime</td></tr><tr><td>location</td><td>varchar(255)</td></tr><tr><td>home</td><td>INT</td></tr><tr><td>away</td><td>INT</td></tr><tr><td>home_score</td><td>INT</td></tr><tr><td>away_score</td><td>INT</td></tr></table>	Basketball		id	INT	event	varchar(255)	sub_event	varchar(255)	game	INT	datetime	datetime	location	varchar(255)	home	INT	away	INT	home_score	INT	away_score	INT	<table><tr><th colspan="2">BoxLacrosse</th></tr><tr><th>id</th><th>INT</th></tr><tr><td>event</td><td>varchar(255)</td></tr><tr><td>sub_event</td><td>varchar(255)</td></tr><tr><td>game</td><td>INT</td></tr><tr><td>datetime</td><td>datetime</td></tr><tr><td>location</td><td>varchar(255)</td></tr><tr><td>home</td><td>varchar(255)</td></tr><tr><td>away</td><td>varchar(255)</td></tr><tr><td>home_score</td><td>varchar(255)</td></tr><tr><td>away_score</td><td>varchar(255)</td></tr></table>	BoxLacrosse		id	INT	event	varchar(255)	sub_event	varchar(255)	game	INT	datetime	datetime	location	varchar(255)	home	varchar(255)	away	varchar(255)	home_score	varchar(255)	away_score	varchar(255)												
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Version 3 DB

Teams		Players		Document Info		Event	
Id	INT	id	INT	key	varchar(255)	Id	INT
name	varchar(255)	name	varchar(255)	url	varchar(255)	event_name	varchar(255)
gold	INT	age	INT	title	varchar(255)	date	varchar(255)
silver	INT	team	varchar(255)	section_title	VARCHAR(255)	time	varchar(255)
bronze	INT					location	varchar(255)
total	INT					EVENT SPECIFIC COLUMNS	varchar(255)

Version 4 DB


# Scraping



"Our highest priority is to satisfy the customer through early and continuous delivery of valuable software."  
(<http://agilemanifesto.org/principles.html>, 2001)



















## Incorrect assumptions concerning team names

 Cheng/He

 Cheng/Li

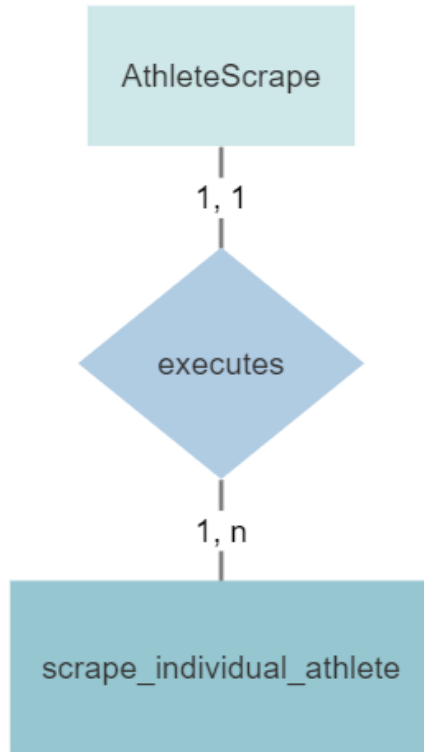
 Cheng/Ngai

 Cheng/Zhang

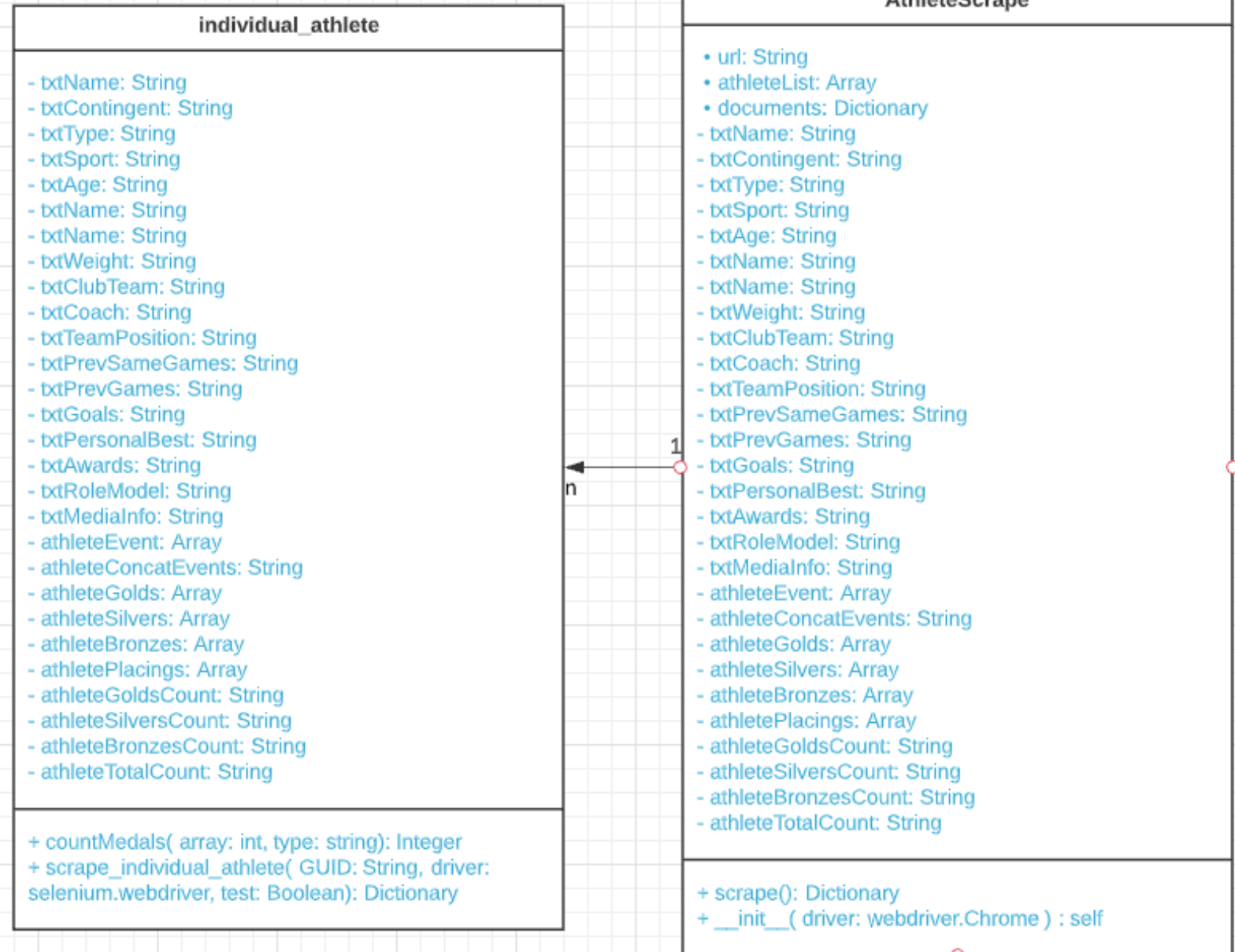
Name	Event
 AB	 Hockey
 AB	 Artistic Swimming
 AB	 Wheelchair Basketball
 AB	 Speed Skating
 AB	 Gymnastics
 AB	 Table Tennis
 AB	 Table Tennis
 AB	 Biathlon
 AB	 Curling

# Athletes

## ERD

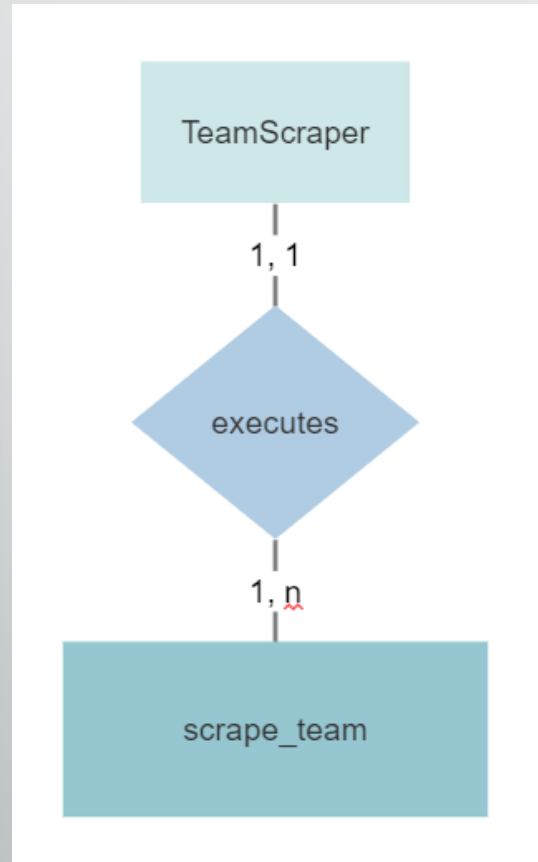


## UML

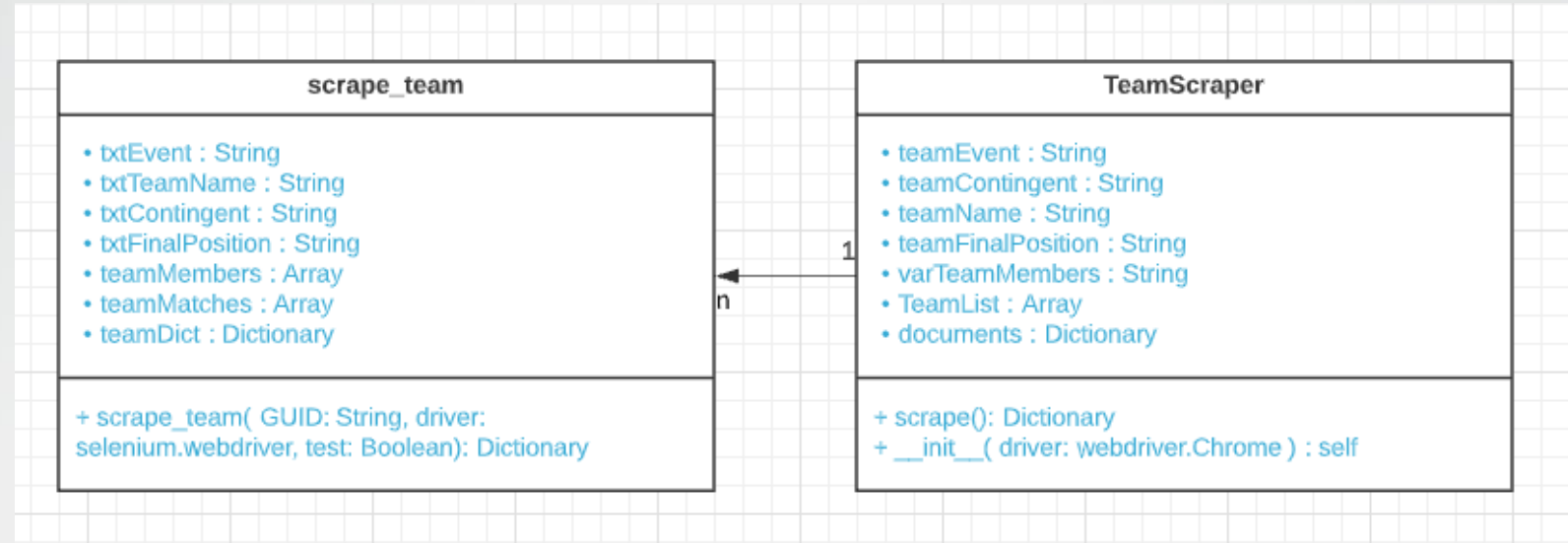


# Teams

## ERD



## UML



**"Simplicity--the art of maximizing the amount of work not done--is essential."**  
(<http://agilemanifesto.org/principles.html>, 2001)



# Canada Games Events

NIAGARA  
2022



## Niagara 2022 Canada Summer Games

EN | FR



Welcome

Sports

Schedule

Registration

Login

### Sports

Sport	Sat 06/08	Sun 07/08	Mon 08/08	Tue 09/08	Wed 10/08	Thu 11/08	Fri 12/08	Sat 13/08	Sun 14/08	Mon 15/08	Tue 16/08	Wed 17/08	Thu 18/08	Fri 19/08	Sat 20/08	Sun 21/08
<a href="#">Athletics</a>																
<a href="#">Baseball</a>																
<a href="#">Basketball</a>																
<a href="#">Box Lacrosse</a>																
<a href="#">Canoe Kayak</a>																
<a href="#">Cycling</a>																
<a href="#">Diving</a>																
<a href="#">Golf</a>																
<a href="#">Rowing</a>																
<a href="#">Rugby Sevens</a>																
<a href="#">Sailing</a>																
<a href="#">Swimming</a>																



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Privacy Policy Statement

Eddy Su

# Canada Games Events

## Searching for Events

### Calendar

Date

Location

Sport

Contingent

Grouping

## Individual Event Page



Athletics  
Javelin  
Female

Official results displayed below. Click this icon [i](#) to see detailed results.

All sport schedules are subject to change. Please check back for updates.

Show all Hide all

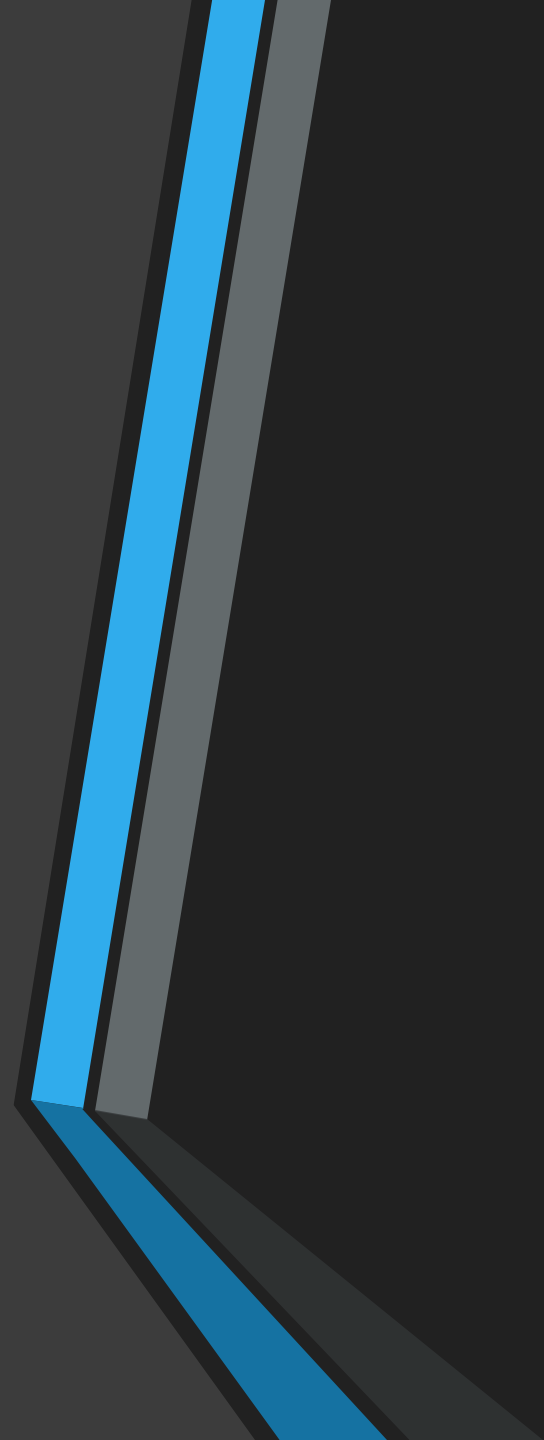
Final

Final Monday, July 31, 2017 12:30 University of Manitoba Stadium

No	Name	Length
1	Ashley Pryke	50.68m
2	Bailey Dell	46.42m
3	Brooke-Lynn Boyd	43.32m
4	Rori Kamryn Denness-Lamont	40.78m
6	Madelyn Quinn	40.70m
16	Leslie Thomas	40.28m
7	Melissa Pellerin	39.87m
8	Maude Croteau-Vaillancourt	37.76m
5	Bridget Deveau	36.82m
9	Kyla Valerie Hughes	34.25m
11	Jenna Smith	34.06m
10	Kira Kopec	32.04m
15	Madeline Szabo	30.48m
12	Maude Léveillé	28.17m
14	Charlotte Elliott	26.52m
13	Katara White	NP



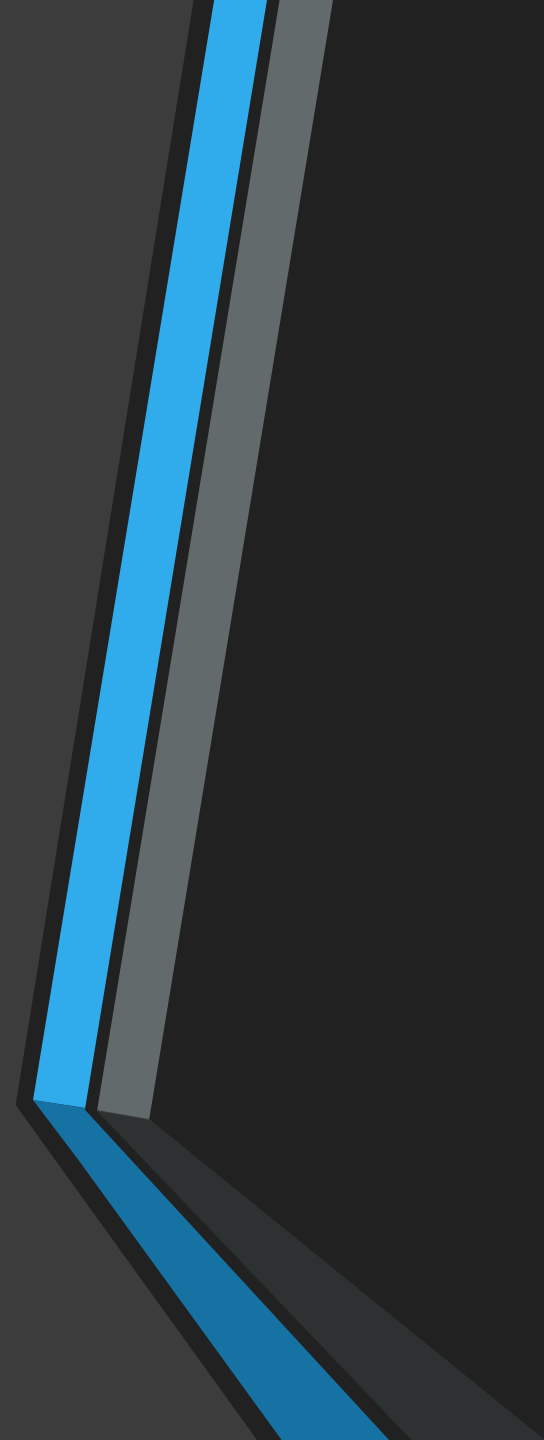
AI



# Models

- Seq2Seq: Supervised learning model. Learning over a series of questions and answers.
- Seq2Sql: Weakly supervised model. Converts text to sql. Low accuracy.
- Google Tapas: Weakly supervised model. Seq2Seq answer. Takes a column header and list of tuples
- Haystack Framework: Weakly supervised model. Takes additional meta data such as table name and info.

# Testing



# Test Results

- Pass:
  - Unit level: The class method has returned the expected result.
  - Component level: All unit tests pass.
- Fail:
  - Unit level:
    - Exception raised.
    - The method does not return the expected output.
  - Component fail:
    - Any unit test failing.
    - Component requests rejected.
  - System level:
    - Not responding appropriately to user/admin requests.

# Testing Province Medals

This PC > Desktop > testcases > province\_medals

Name	Date modified	Type	Size
2019 Canada Games - Red Deer, Albert...	2022-04-09 11:56 AM	File folder	
empty.html	2022-04-09 12:00 PM	Chrome HTML Do...	106 KB
<input checked="" type="checkbox"/> normal.html	2022-04-09 11:56 AM	Chrome HTML Do...	106 KB
null.html	2022-04-09 11:58 AM	Chrome HTML Do...	69 KB

Medal standings

Contingent	Gold	Silver	Bronze	Total
 <a href="#">Quebec</a>	65	41	40	146
 <a href="#">Ontario</a>	18	43	44	105
 <a href="#">Alberta</a>	36	33	31	100
 <a href="#">British Columbia</a>	30	28	29	87
 <a href="#">Manitoba</a>	9	7	9	25
 <a href="#">Saskatchewan</a>	3	3	11	17
 <a href="#">Nova Scotia</a>	1	6	4	11
 <a href="#">New Brunswick</a>	1	3	5	9
 <a href="#">Newfoundland and Labrador</a>	1	0	1	2
 <a href="#">Prince Edward Island</a>	0	1	1	2
 <a href="#">Northwest Territories</a>	0	0	1	1
 <a href="#">Yukon</a>	0	0	1	1
 <a href="#">Nunavut</a>	0	0	0	0

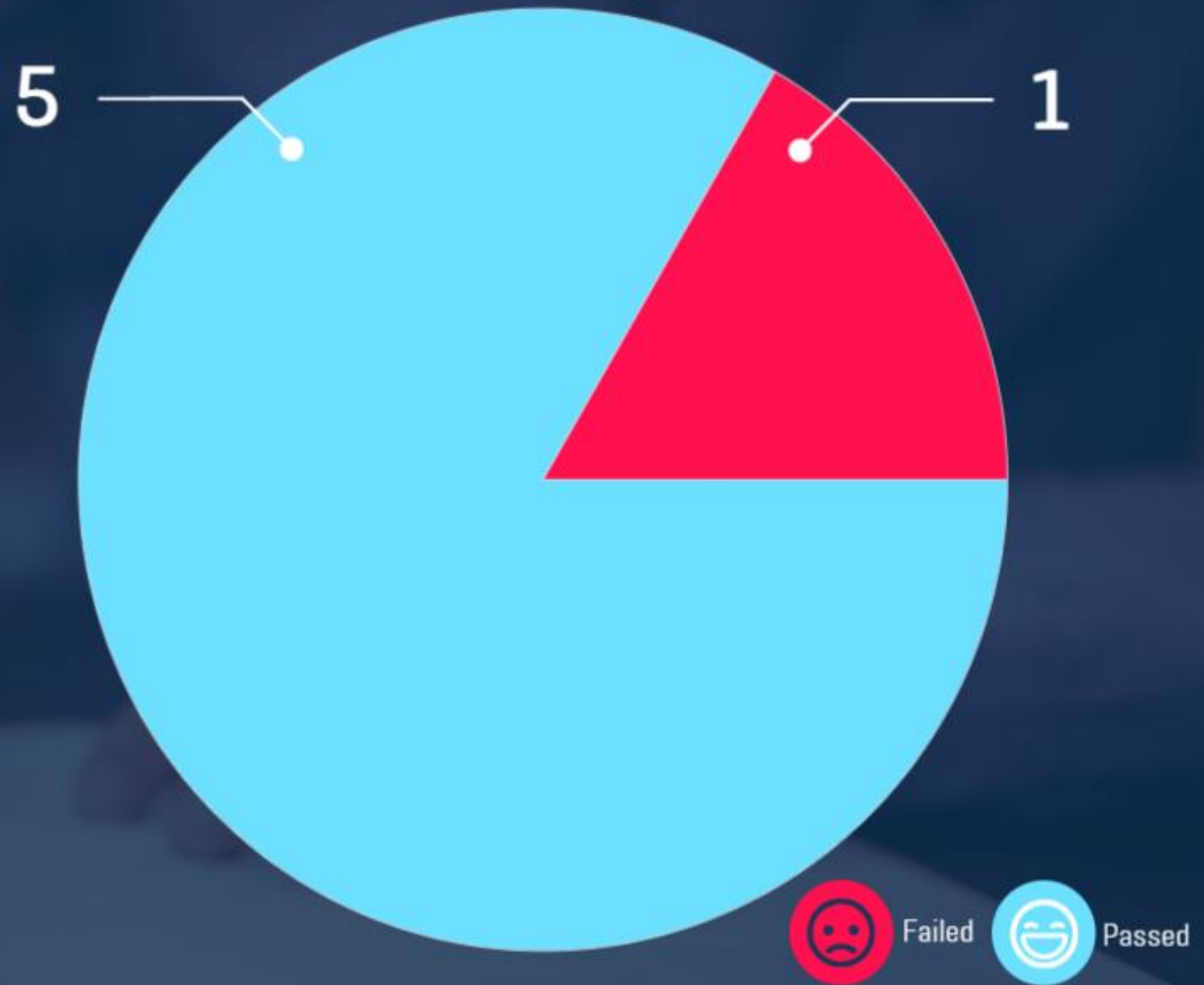
Medal standings

Medal standings

Contingent	Gold	Silver	Bronze	Total
 <a href="#">Quebec</a>	65	41	40	146
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 <a href="#">Saskatchewan</a>				
 <a href="#">Nova Scotia</a>				
 <a href="#">New Brunswick</a>				
 <a href="#">Newfoundland and Labrador</a>				
 <a href="#">Prince Edward Island</a>				
 <a href="#">Northwest Territories</a>	0	0	1	1
 <a href="#">Yukon</a>	0	0	1	1
 <a href="#">Nunavut</a>	0	0	0	0

# Province Medals

2022-04-14 TESTS



```
Traceback (most recent call last):
  File "c:\Users\me\Desktop\Cosc4p02ChatbotProject-main\Chatbot\Back-End\components\executetests.py", line 30, in <module>
    provtest2 = prov2.scrape("file:///C:/users/me/desktop/testcases/province_medals/null.html", True)
  File "c:\Users\me\Desktop\Cosc4p02ChatbotProject-main\Chatbot\Back-End\components\scraping\modules\province_medals.py", line 80, in scrape
    'Province Name': provinceName,
UnboundLocalError: local variable 'provinceName' referenced before assignment
```

# Testing Continued

## Unit testing

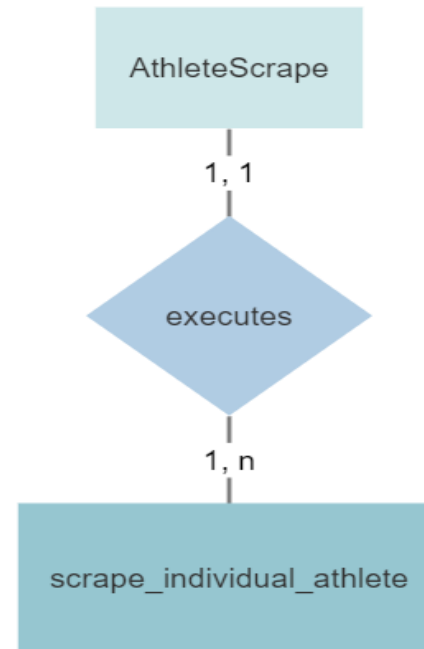
Unit testing is the process of **testing individual components in isolation**. It is a defect testing process.

Units may be:

- **Individual functions** or methods within an object;
- **Object classes** with several attributes and methods;
- **Composite components** with defined interfaces used to access their functionality.

- **Unit testing:** individual program units or object classes are tested; should focus on testing the functionality of objects or methods.
- **Component testing:** several individual units are integrated to create composite components; should focus on testing component interfaces.
- **System testing:** some or all of the components in a system are integrated and the system is tested as a whole; should focus on testing component interactions.

Reference: Sommerville, Software Engineering, 10 ed., Chapter 8



# Conclusion

