# Decision Table Editor

ECSE 458 D1/D2 Project Presentation

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# 01

# Motivation

The objective of this project & the main challenges.

# What is Our Project?



- Create a desktop application decision editor
- Use incremental software development processes
- Deliver a successfully working product at every sprint
- Deliver a product that can be used by anybody

- Organized into eight equal length sprints
- Manage and update a task backlog
- Produce a product that can be handed off seamlessly at the end of the semester

# What is a Decision Table?

- Way of visualizing the decision process
- Conditions, Actons, Rules

- Conditions determine actions
- Rules allow for different permutations of conditions and actions

- Easy way of streamlining the decision process and can be scaled

| Rules | | 1 | 2 | 3 | |
|---|---|---|---|---|---|
| Conditions | | | | | |
| | Rain | False | * | True | Delete |
| | Temp | 15 | 40 | 25 | Delete |
| | Tornado | False | False | True | Delete |
| Actions | | | | | |
| | Golf | True | False | False | Delete |
| | Swim | False | True | False | Delete |

# Why Take on this Project?
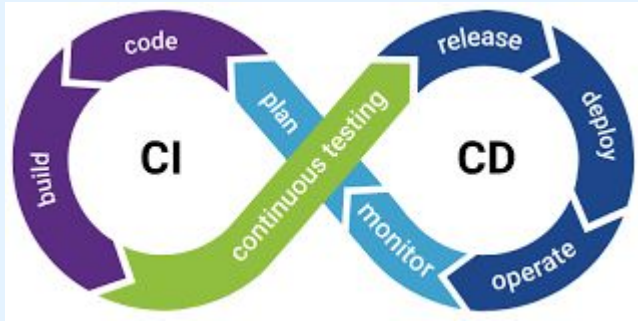


- Very interested in working on project that heavily has to do with the software design process
- Interested in the creation of applications
- Working on a project that can help a large group of people from different backgrounds

# Challenges Faced
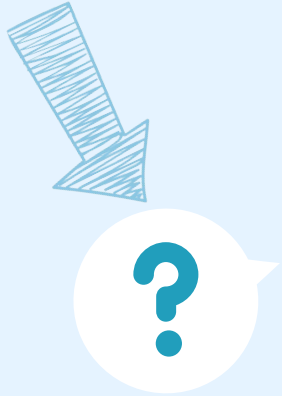
- Exclusively using Python
- Delivering a meaningful product at the first sprint
- Coordinating meeting times during work heavy weeks
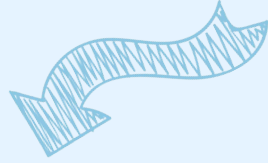- Managing a rapidly expanding codebase
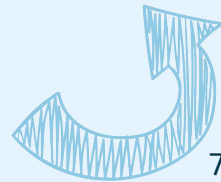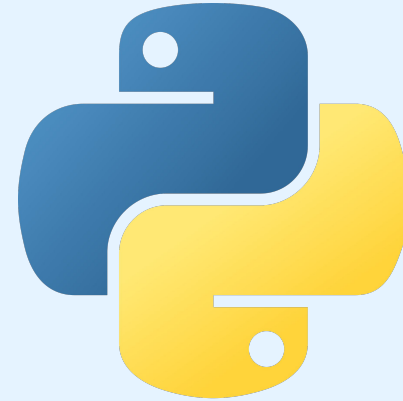
**02**

# Progress So Far

The work done & design process up to this point.

# Frameworks & libraries

# Project Structure

**Main** **Table** **UI** **Utils**
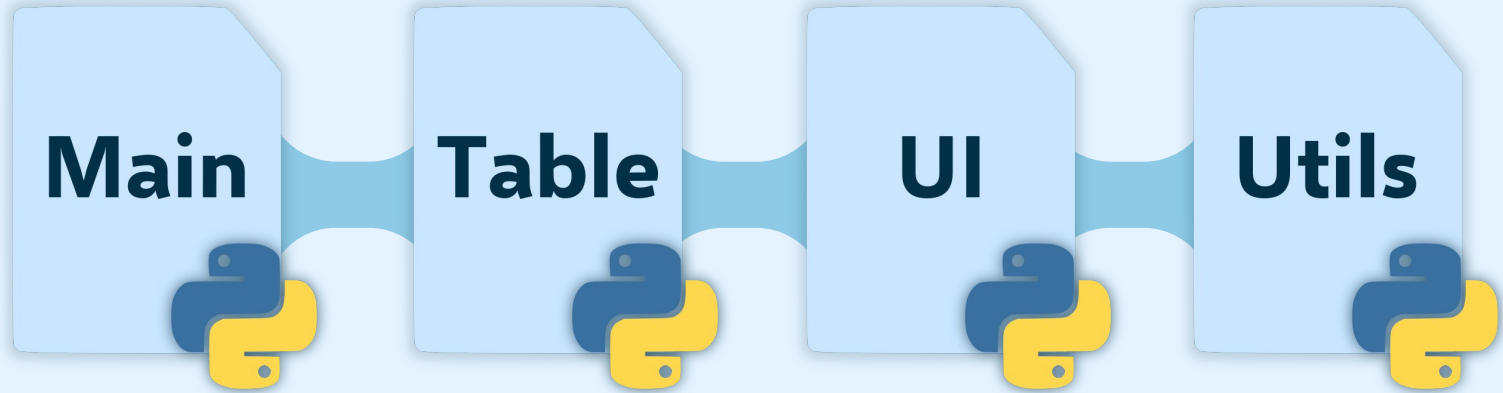
# Version 1.0 A foundation
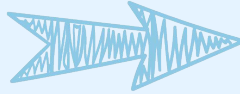
- **Create a decision table**
- **Create boolean conditions & actions**
- **Add rules**

**My Basic Table**

| Rules | | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Conditions | | | | | |
| | P | False | False | True | True |
| | Q | False | True | False | True |
| Actions | | | | | |
| | P AND Q | False | False | False | True |

Add condition

Add action

Add rule

# Version 1.1 Numbers!

- **Support of numeric types**
- **File saves as JSON**

Select a type:

Number type

Range

Attributes

Exclusive

Submit    Reset
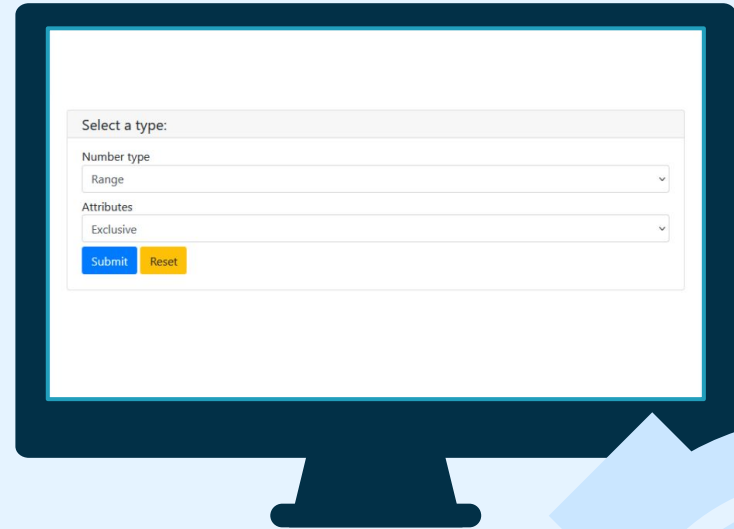
# Version 1.2 Custom types
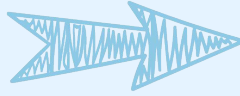
- **Open & edit existing tables**
- **Create custom types**
- **Delete conditions & actions**

**Add a custom type**

Enter a name for the custom type:

Weather

Input type attributes seperated by commas, (a,b,c):

Sunny,Overcast,Rain

Submit   Reset

# Version 1.3 Modifications
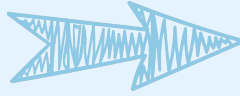
- **Modify type of existing conditions & actions**

**Modify Action**

Would you like to edit the name?

Yes

Would you like to edit the type?

Yes

Submit    Reset

# Version 1.4 Changing names
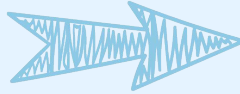
- Rename conditions, actions & tables
- Close an opened table
- Delete rules

Input rule number to delete:

3

Submit    Reset
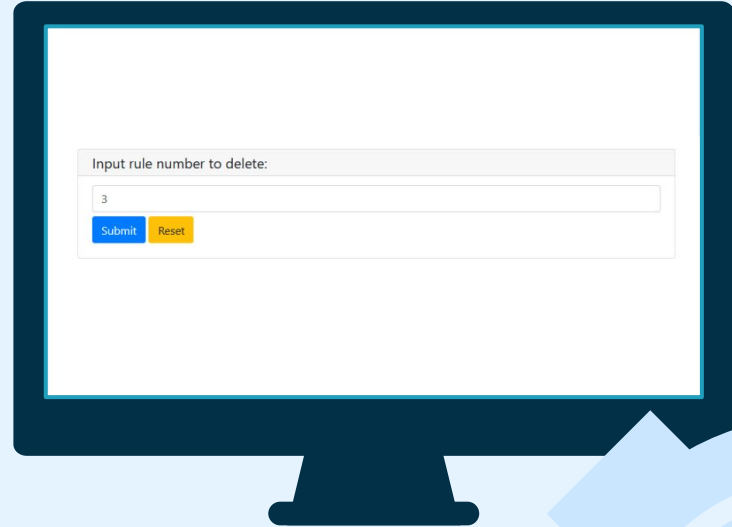
# Version 1.5 Optimize!
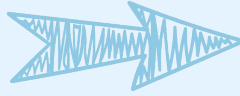
- **Analyse table for unused conditions & actions**
- **Fix all warnings**
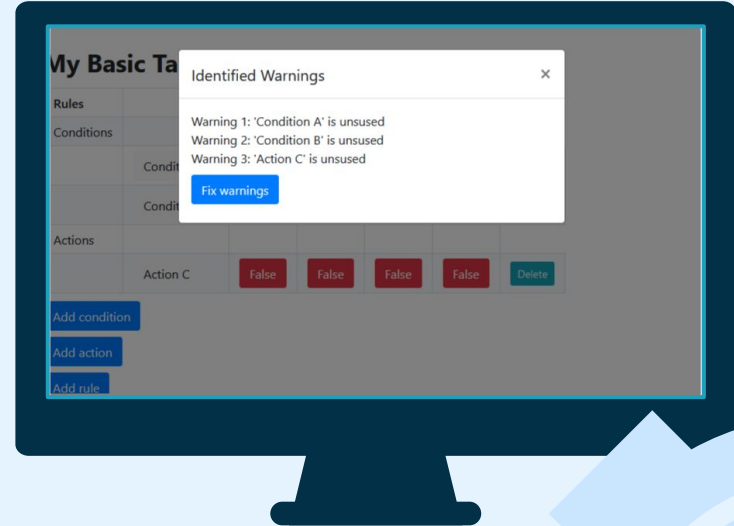
# 03

# Live Demo

Live application demonstration for visualisation.

# Launch The Decision Table Editor

# 04

# Future Plans

A planned timeline of the tasks to be completed.

# Our Timeline

**Marks the end of sprint 7**
**Marks the start of Sprint 8**

**Final product due date**

| February 29th | March 6th / 7th | March 27th / 28th | April 9th | April 12th |

➔ **Currently in Sprint 7 out of 8.**

➔ **Marks the end of sprint 8**
➔ **Marks the start of the delivery & handoff phase**
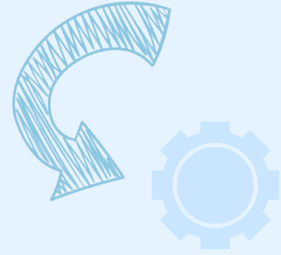
➔ **Last day of Class**
➔ **Project Poster due date**
➔ **Final Project report due date**
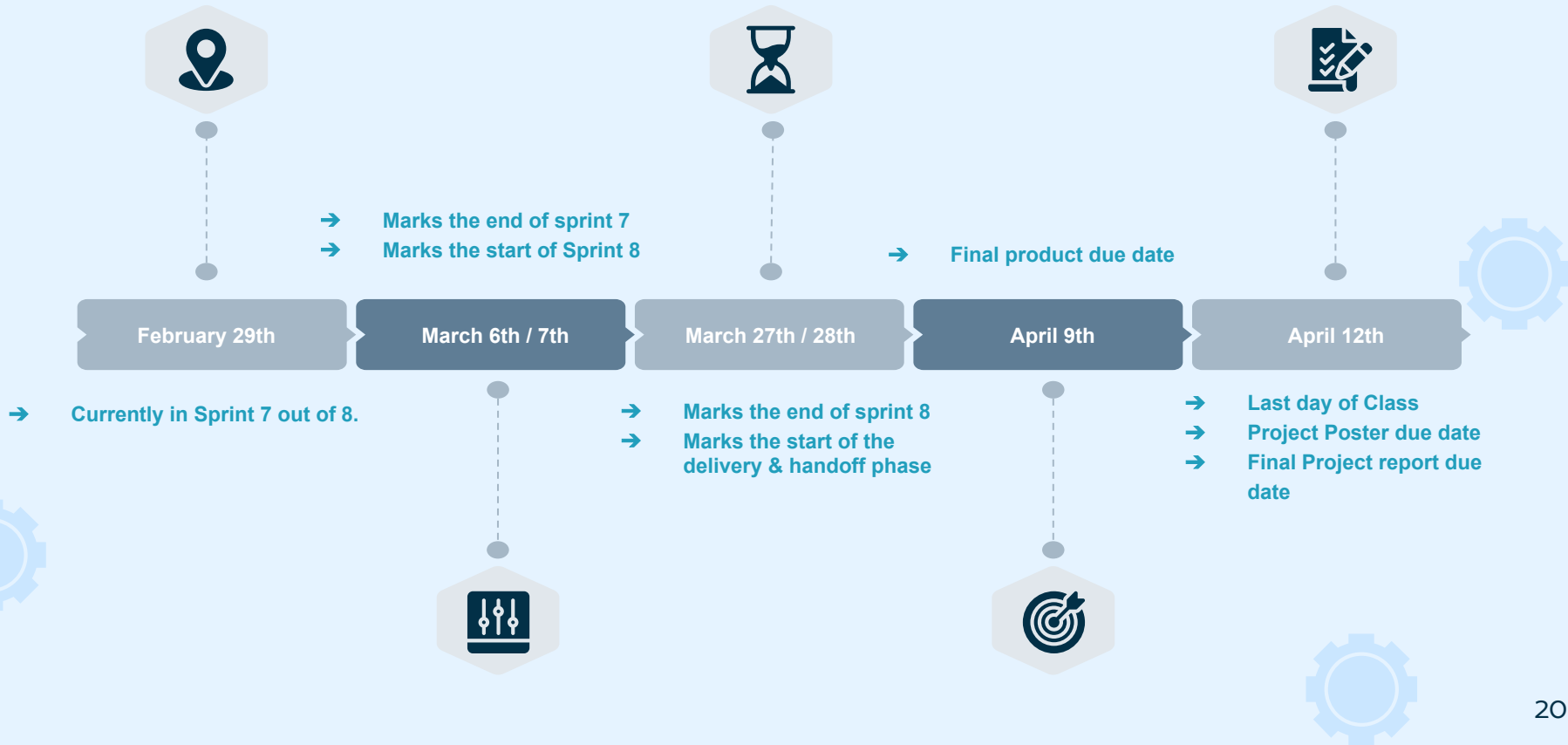
# The Remaining Tasks

| User Story Tasks | Expected Effort* |
|---|---|
| User Story 25:  Remove RR | 1 - 2 |
| User Story 26:  Identify CR | 2 - 4 |
| User Story 27:  Combine R | 2 - 4 |
| User Story 30:  E2G | 5 - 7 |
| User Story 31:  Remove IR | 1 - 2 |
| User Story 32:  Eliminate IC | 2 - 3 |
| User Story 33:  Eliminate RR | 3 - 4 |

| Other Tasks | Expected Effort* |
|---|---|
| Comprehensive Testing Session | 12 |
| Project Poster | 12 |
| Final Project Report | 16 |
| Progress Report 7 | 2 - 3 |

**\* Measured in Hours**

# Phase 1 : Today - March 6th

**To Do List**

➜    User Story 25

➜    User Story 26

➜    User Story 27

➜    User Story 31

➜    Submit Progress Report 6

# Phase 2 : March 7th - March 27th

**To Do List**

➔ User Story 30

➔ User Story 32

➔ User Story 33

➔ Start and submit Progress

Report 7

# Phase 3 : March 28th - April 9th

**To Do List**

➜ Comprehensive Testing Session

➜ Start Final Project Report

➜ Complete Project Poster

➜ Deliver Final Product to Supervisor

# Final Phase : April 10th - April 12th

## To Do List

➔ Finish and submit Final Project Report

➔ Submit Project Poster

**05**

# Work Breakdown

A summary of each member's contribution & future work.

# Member Contributions (so far)

## Yazan

- User Story 5
- User Story 6
- Backlog Management
- Google Drive Documentation
- User Story 15
- User Story 18
- User Story 24

## Julien

- User Story 1
- User Story 2
- User Story 5
- User Story 12
- User Story 13
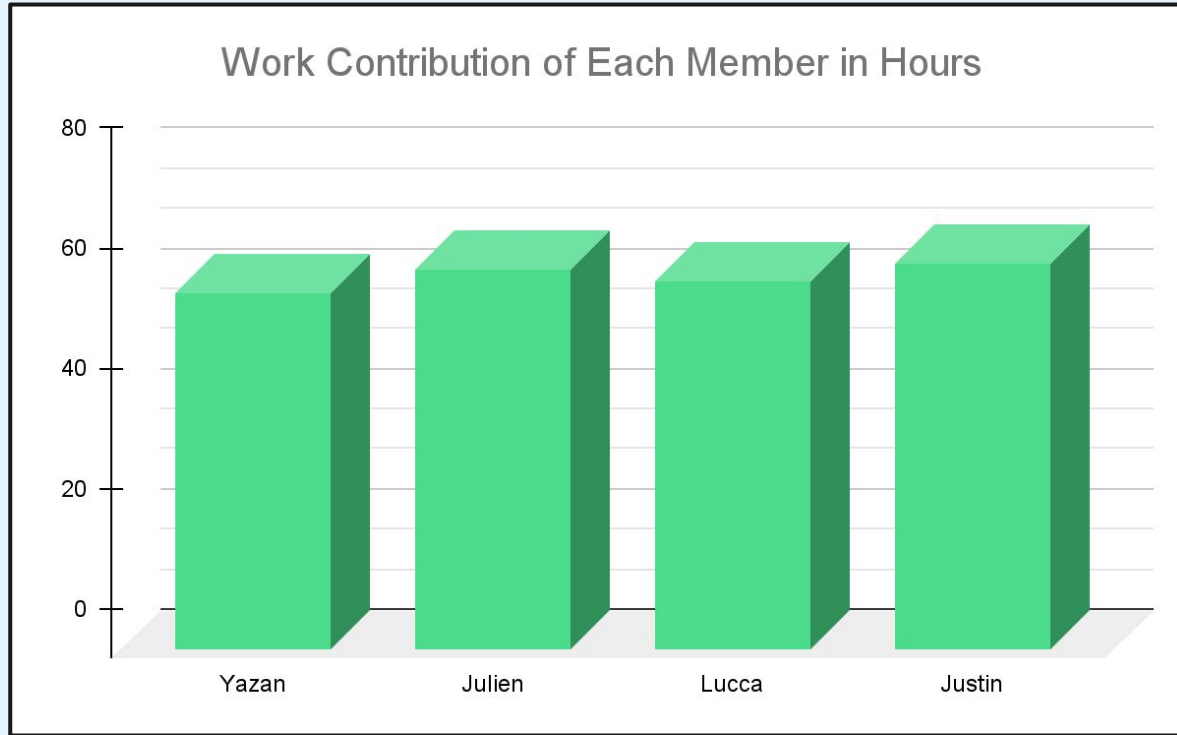- User Story 22
- User Story 29

## Lucca

- User Story 3
- User Story 10
- User Story 11
- Github Repository set up
- User Story 16
- User Story 20
- User Story 28

## Justin

- User Story 4
- User Story 7
- User Story 8
- User Story 9
- User Story 14
- User Story 21
- User Story 23

# Member Contributions (so far) continued…



Work Contribution of Each Member in Hours

Average member contribution **~ 62 hr**

Number of valid weeks **= 16 weeks**

Weekly average member contribution
**= 3.875 hr**
**~ 4 hours/week/member**

Figure 1: Bar Chart displaying the corresponding contributions of each member in hours

# Distribution of remaining tasks

| User Story Tasks |
| --- |
| User Story 25:  Remove RR |
| User Story 26:  Identify CR |
| User Story 27:  Combine R |
| User Story 30:  E2G |
| User Story 31:  Remove IR |
| User Story 32:  Eliminate IC |
| User Story 33:  Eliminate RR |

| Other Tasks |
| --- |
| Comprehensive Testing Session |
| Project Poster |
| Final Project Report |
| Progress Report 7 |

**… as shown earlier.**

# **Distribution of remaining tasks ⇨ Phase 1**

- User Story 25 ⇨ *Yazan*
- User Story 26 ⇨ *Julien*
- User Story 27 ⇨ *Lucca*
- User Story 31 ⇨ *Justin*
- Submit Progress Report 6 ⇨ **Group 50**

# Distribution of remaining tasks ⇨ Phase 2

- User Story 30 ⇨ **Lucca + Julien**

- User Story 32 ⇨ **Yazan**

- User Story 33 ⇨ **Justin**

- Start and submit Progress Report 7 ⇨ **Group 50**

# Distribution of remaining tasks ⇨ Phase 3

- Comprehensive Testing Session ⇨ **Group 50**

- Start Final Project Report ⇨ **Group 50**

- Complete Project Poster ⇨ **Group 50**

- Deliver Final Product to Supervisor ⇨ **Group 50**

# **Distribution of remaining tasks ⇨ Final Phase**

- Finish and submit Final Project Report ⇨ **Group 50**

- Submit Project Poster ⇨ **Group 50**

# Distribution Summary

## Yazan

- User Story 25
- User Story 32

## Julien

- User Story 26
- User Story 30

## Lucca

- User Story 27
- User Story 30

## Justin

- User Story 31
- User Story 33

## Group 50

- Submit Progress Report 6
- Start and submit Progress Report 7
- Comprehensive Testing Session
- Start Final Project Report
- Complete Project Poster
- Deliver Final Product to Supervisor
- Finish and submit Final Project Report
- Submit Project Poster

# 06

# Concluding Remarks

Final remarks + Questions and Answers.

## Where are we right now!
- Completed the UI display
- Organized and commented code
- Appropriate log of every deliverable

## Where we plan to be!
- Background automation and optimization
- Last two sprints proper attention.
- Rigorously and exhaustively tested

## How we are going to get there!

- Split the 7 user stories within the last two sprints
- Continue utilizing best practices such as commenting, testing, code organization, etc

## Why this is important!

- Provides users with a platform to model complex logic proving coverage of every scenario
- Free solution useful primarily for McGill students
- Optimizable to focus on certain decision and remove redundant or unused cases

# Thanks!

**Do you have any questions?**