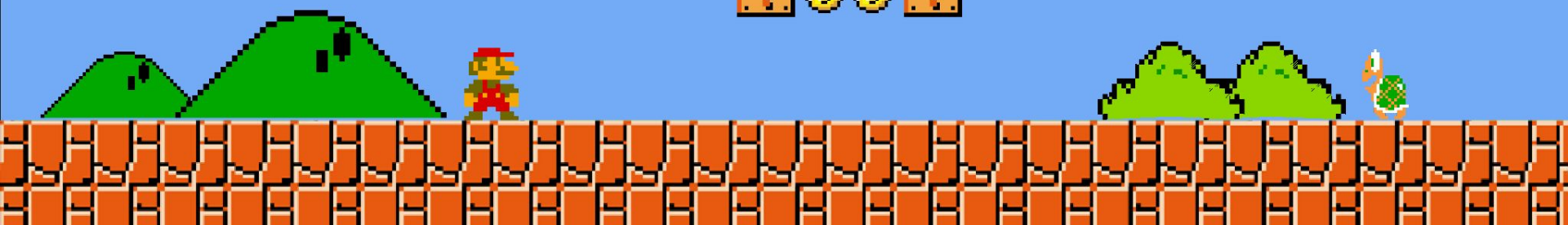


# MARIO.

NIJIYA MAHARJAN (078BCT052)  
RUBIKA BASHYAL (078BCT068)  
SADHANA PANTHI (078BCT069)

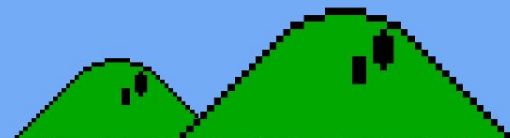
• START PRESENTATION



# OBJECTIVES



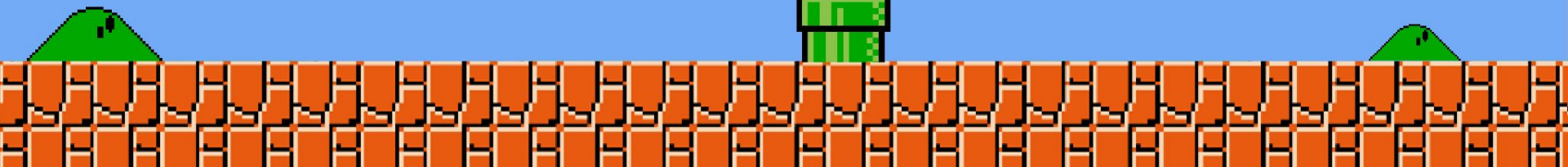
- To apply the concepts of Object Oriented Programming in practical application.
- To implement external libraries like SFML for game development.
- To work and communicate in a team environment.
- To get familiar with version control with git and collaboration tools like GitHub.
- To make a fully functional Mario game which is entertaining to play.



# ABOUT MARIO



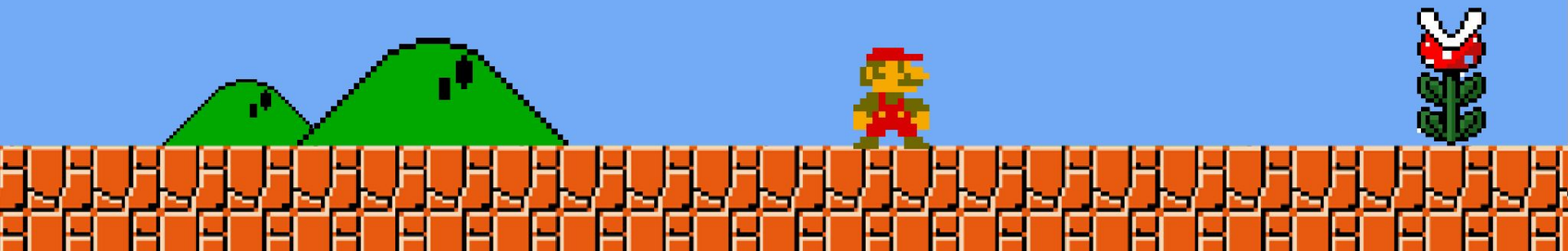
- One of the most beloved and iconic games of all time.
- Created by Shigeru Miyamoto and introduced by Nintendo in 1985.
- Primarily a platformer game, focusing on precise jumps and obstacle navigation.
- Levels are filled with enemies and power-ups.
- Set standards for platforming and game design.





# OUR VERSION

- Simpler version of the original Mario
- Side-scrolling Mechanism
- Scoreboard
- Controlled using Keyboard Inputs
- Enemies, Coins and Power-Up



# DEVELOPMENT TOOLS

- Visual Studio IDE
- MSVC compiler
- SFML







# METHODOLOGY



- Resource Gathering and Planning
- System Model and Design
- Software Development
- Testing and Implementation
- Deployment and Documentation



# PROBLEMS FACED

- SFML Setup
- Partitioning Code
- Build Errors
- Merge Conflicts
- Improving User Experience



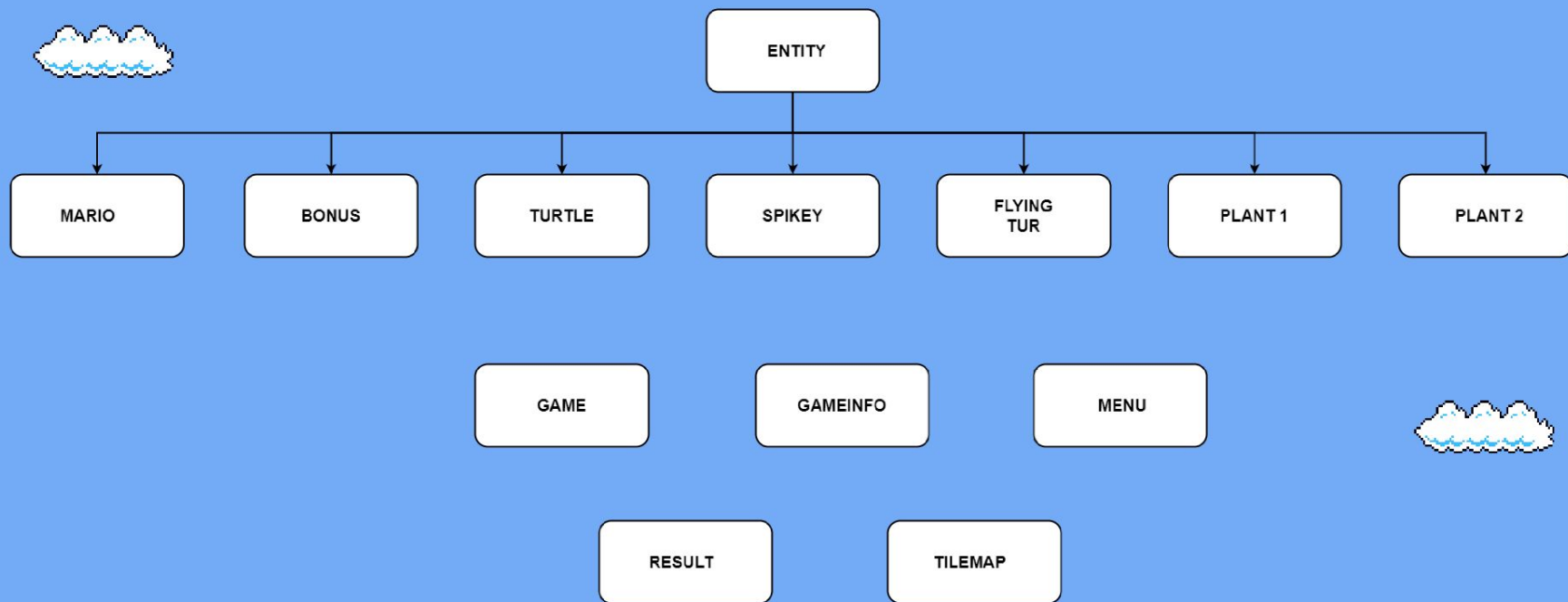
SOLUTIONS.



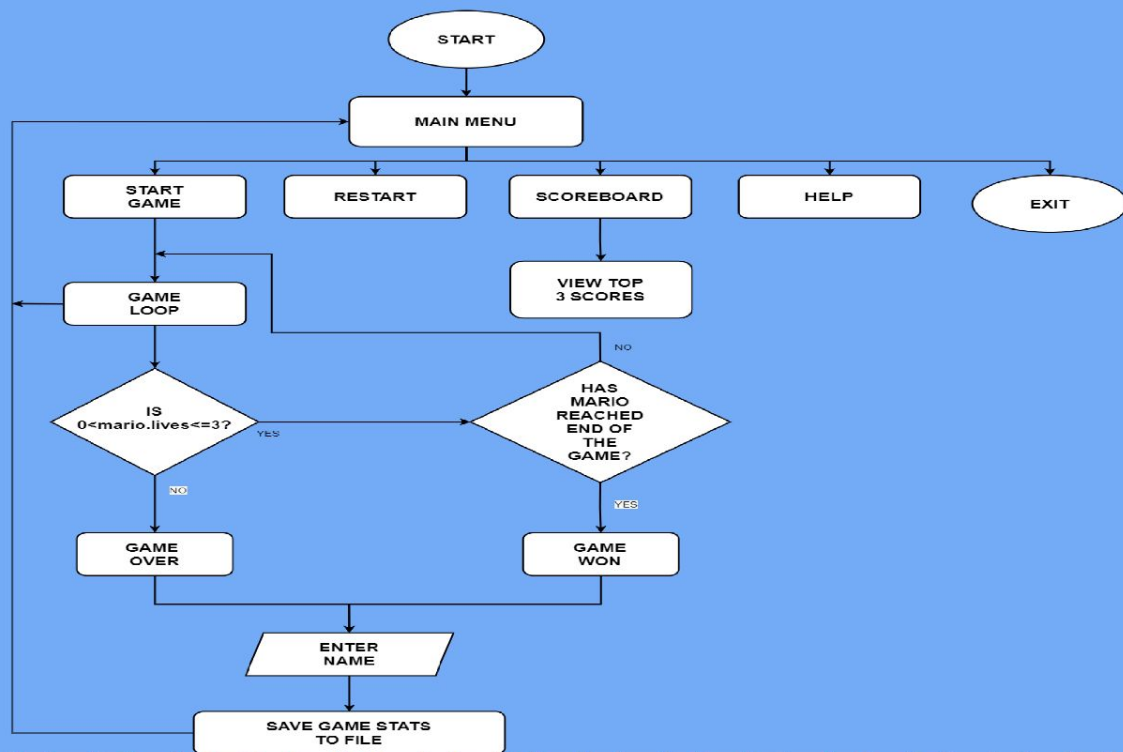




# CODE STRUCTURE



# GAME FLOW



DEMONSTRATION.



# LIMITATIONS AND FUTURE ENHANCEMENTS



- Endless runner
- Different maps
- Animation
- Dynamic screen sizing
- Different power ups.





# WHAT WE LEARNED



- Coding is HARD but fun.
- How to apply OOP principles to build an application.
- Basics of game development.
- How to communicate effectively in a team.
- Use GitHub for version control.



THANK YOU.  
ANY QUESTIONS?

