

# Team Contracts

*VATS*

*Soham Vakani, Ary Sharma, Thomas Turner, Skyler Simpson*

## PROJECT INFORMATION

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Our project is an AI-Powered Game Character System that combines machine learning with interactive gameplay. Users will type in a short description (e.g., “a fast ninja with fire powers”), and our system will use natural language processing to translate the description into structured character attributes such as speed, strength, and abilities. A corresponding 2D sprite will then be generated, either by selecting and modifying assets from a pre-made library or through generative models when the sprite is not available in the library. The character is then playable in a simple mini-game where visitors can immediately interact with the creation. To emphasize the AI/ML focus, we plan to incorporate machine learning at multiple stages, including text-to-attribute mapping, sprite or ability generation, automated balancing, and playstyle clustering. The result will be a fun, demo-ready system that highlights both the fundamentals of ML and its creative application in a gameplay scenario.

## COMMUNICATION PLAN

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### GROUP COMMUNICATION

Team communication will happen primarily through Teams messages or in-person. All major updates, progress reports, and communication will happen in the team group chat. Occasionally, other methods, such as texting, may be used for online communication.

### TEAM MEETINGS

Team meetings will occur at least twice a week over the course of the project every Monday from 2-3 pm and every Friday from 2-3pm. Additional team meetings may occur at the group’s discretion when deemed necessary. These meetings will primarily occur over Teams but may also occur over other channels or in-person.

## PARTICIPANTS & STAKEHOLDERS

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### GROUP MEMBERS & ROLES

As per the guidelines of the EECE3090C course, the members of this group could not exceed 5 people. The group is group 15, and the name is “VATS.” The members of the group include:

- Soham Vakani - [vakanisa@mail.uc.edu](mailto:vakanisa@mail.uc.edu) | (513) 501 - 1165
  - Software Developer
- Ary Sharma – [sharm3a8@mail.uc.edu](mailto:sharm3a8@mail.uc.edu) | (614) 767-9771
  - Project manager and software developer
- Skyler Simpson – [simpsosk@mail.uc.edu](mailto:simpsosk@mail.uc.edu) | (614) 940-4119
  - Software Developer
- Thomas Turner – [turnetg@mail.uc.edu](mailto:turnetg@mail.uc.edu) | (513) 432-8498
  - Software Developer and Lead Documenter

## APPROVALS

Upon signed approval of all members of the team, this document will be adopted by team VATS.

- a. Soham Vakani
- b. Ary Sharma
- c. Skyler Simpson
- d. Thomas Turner