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Software Development

Professor Kemper

Project 6- CRC Cards

Class: AMazeActivity

Responsibilities:

- Allow the user to pick a maze generation method or load a maze from a file
- Allow the user to pick the size/difficulty of the maze
- Allow the user to begin maze generation and move to GeneratorActivity
- Send generator method and maze size to GeneratorActivity

Collaborators:

- GeneratorActivity

Class: GeneratorActivity

Responsibilities:

- Generate the maze according to parameters received from AMazeActivity
- Allow the user to select the robot driver type.
- Allow the user to decide whether the maze walls, map, and solution are visible.
- Allow the user to move to the PlayActivity once maze generation is complete
- Send PlayActivity information concerning the driver type and visibility settings

Collaborators:

- AMazeActivity
- PlayActivity
- Maze

Class: PlayActivity

Responsibilities:

- Read incoming information from GeneratorActivity
- Enable the user to control a manual robot if driver type is manual
- Let the user watch and pause the robot driver if the driver type is not manual
- Display the graphics from the GraphicsWrapper
- Display the energy used by the robot
- Let the user change visibility settings of map, walls, and solution

- Send the user to FinishActivity once the game is over

Collaborators:

- GeneratorActivity
- FinishActivity
- Maze
- GraphicsWrapper

Class: FinishActivity

Responsibilities:

- Tell the user whether they won or lost
- Tell the user how much energy they used and how long their robot's path was
- Allow the user to save a maze
- Allow the user to move back to AMazeActivity to restart the game

Collaborators:

- AMazeActivity
- Maze