

AMazeActivity

Responsibilities:

- Allow user to select a maze generation algorithm and skill level
- Transfer algorithm and skill level to generation activity
- Begin the game

Collaborators:

- GeneratingActivity
- activity_amaze.xml, amaze.xml

GeneratingActivity

Responsibilities:

- Provide user with options for a robot driver
- Retrieve info from AMazeActivity for which kind of maze to generate
- Provide options to show the maze, solution, and visible walls
- Show the user the progress of the maze generation
- Send driver type to PlayActivity

Collaborators:

- AMazeActivity
- activity_generating.xml, generating.xml,
- PlayActivity

PlayActivity

Responsibilities:

- Allow user to play the game
- Display graphics
- Receive driver type from GeneratingActivity
- If in manual, display navigation buttons
- If in automated exploration, provide a play/pause button
- Provide user with options to turn off maze, solution and visible walls
- Show how much battery is left

Collaborators:

- GeneratingActivity
- activity_play.xml, play.xml
- FinishActivity

FinishActivity

Responsibilities:

- Receive info from play activity as to whether robot stopped, battery, and path length
- Display the amount of battery used and the number of steps taken
- Whether the robot has stopped or not
- Button to restart the game

Collaborators:

- PlayActivity
- activity_finish.xml, finish.xml
- AMazeActivity