Classes-Responsibilities-Collaborators (CRC) Design Model for Android Maze Application

Class	
AMazeActivity	
Responsibilities	**Collaborators**
- Serve as the main menu screen for users when they open the app - Allow users to pick a skill level, maze builder, and robot driver - Pass information about users' maze to the GeneratingActivity	GeneratingActivity

Class	
GeneratingActivity	
Responsibilities	**Collaborators**
- Receive information about the user's desired maze from MazeActivity - Use that information to prepare a maze - Show the progress of the maze generation to the user - Switch to a new activity, depending on user's selection, and pass on information to that activity	- AMazeActivity - PlayManuallyActivity - PlayAnimationActivity

Class	
PlayManuallyActivity	
Responsibilities	**Collaborators**
- Allow the user to manually explore the maze using buttons for movement - Allow the user to toggle walls, the map, and the solution, if they want - Allow the user to return to the menu with the back button - Have a shortcut button which takes us directly to the finishing screen (temporary)	- GeneratingActivity - FinishActivity

Class	
PlayAnimationActivity	
Responsibilities	Collaborators
- Allow the user the watch a robot automatically solve the maze (can start and pause the robot) - Allow the user to toggle walls, the map, and the solution, if they want - Allow the user to return to the menu with the back button - Have a shortcut button which takes us directly to the finishing screen (temporary)	- GeneratingActivity - FinishActivity

Class	
FinishActivity	
Responsibilities	Collaborators
- Display messages for success or failure (i.e. did the user complete the maze or not?) - Display path length and energy consumption - Allow the user to go back to the menu	- PlayManuallyActivity - PlayAnimationActivity - AMazeActivity