

## Maze' Assignment

### Title

Find the path that a virtual robot should follow inside a maze to go from a start point to end point.

### Description

- a) Assume that you are given a Maze in a two-dimensional matrix. The number of rows and the number of columns can vary, e.g you can have 4x7, 7x3, 5x4 or etc. matrix. You can assume high limits but, this is up to your implementation. It is up to you to decide how you represent the Maze in the UI and how you get it from the user that wants to solve the problem (e.g. you can import it through a file, or you can create it directly on the UI or another way that would like to choose).
- b) The matrix contains cells, which are either free steps to step in, or they are walls.. The gray locations are the walls.

An example is shown below:

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S							

- c) You are also given the starting point and the goal point.
- d) You are required to show a path that the robot takes from start point to goal point. The program can print the path in the maze or you can just have a list of the coordinates (x,y) of the cells from which the robot passed.
- e) You are free to implement the way you want using Visualforce or Lightning.

Important Notice: There are ready components for this in App Exchange, but we are not interested for such ready components. What we would like to see is custom solution, so we can evaluate the skills and the creativity.

Note: You can use their own personal developer edition environment and share the change set through zip file.