
Algorithms:-

Dijkstra's Algorithm:-

Dijkstra's algorithm finds the least expensive path in a weighted graph between our starting node and a destination node, if such a path exists. At the end of the algorithm, when we have arrived at the destination node, we can print the lowest cost path by backtracking from the destination node to the starting node. We have used this algorithm for getting the shortest path between start point and the end point in the maze.

RESULTS

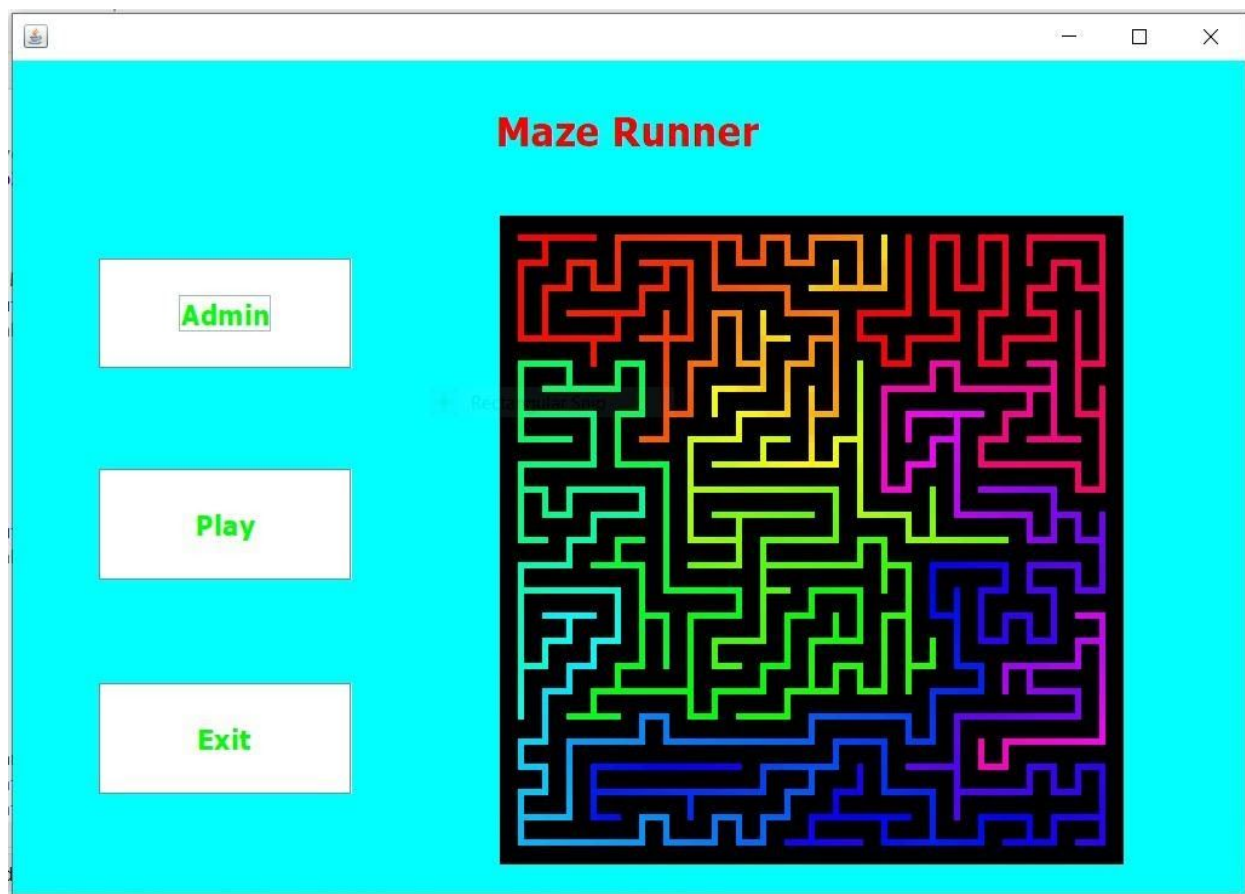
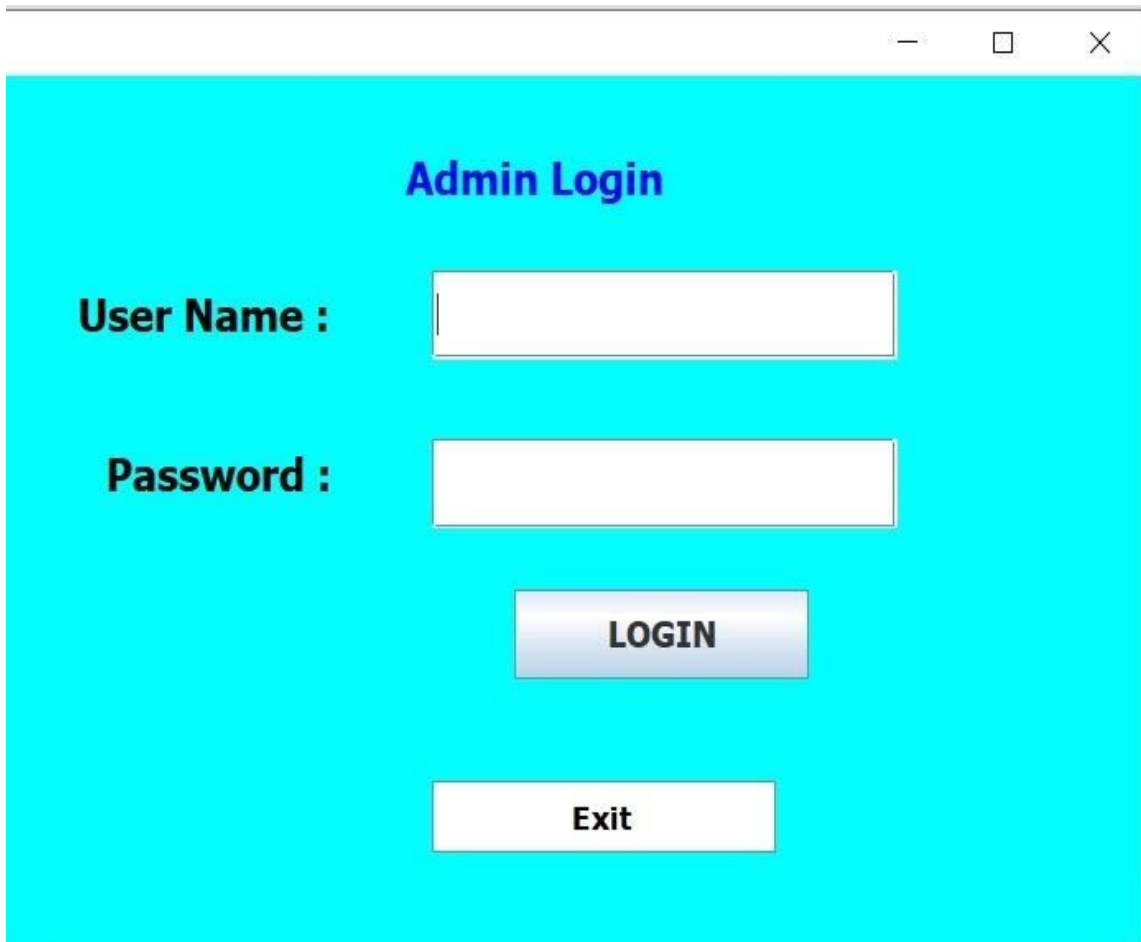


Fig.2: Main Menu of the Maze Game



The image shows a screenshot of a web application window titled "Admin Login". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. The background of the window is a solid cyan color. In the center, the text "Admin Login" is displayed in a bold, blue font. Below this, there are two input fields: one for "User Name :" and one for "Password :". Both fields are white with a thin black border. Below the password field, there are two buttons: a blue button with the text "LOGIN" and a white button with the text "Exit".

Fig.3: Login Page for Admin

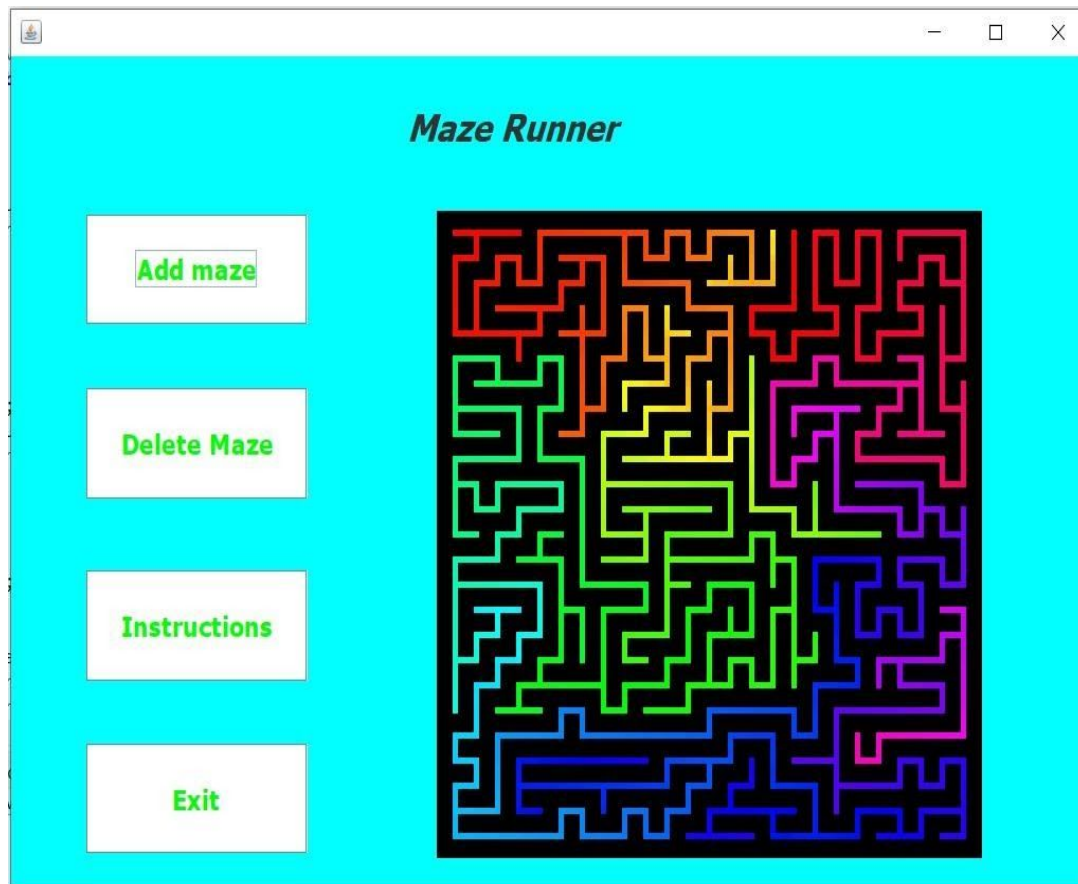


Fig.4: Main Menu of Admin

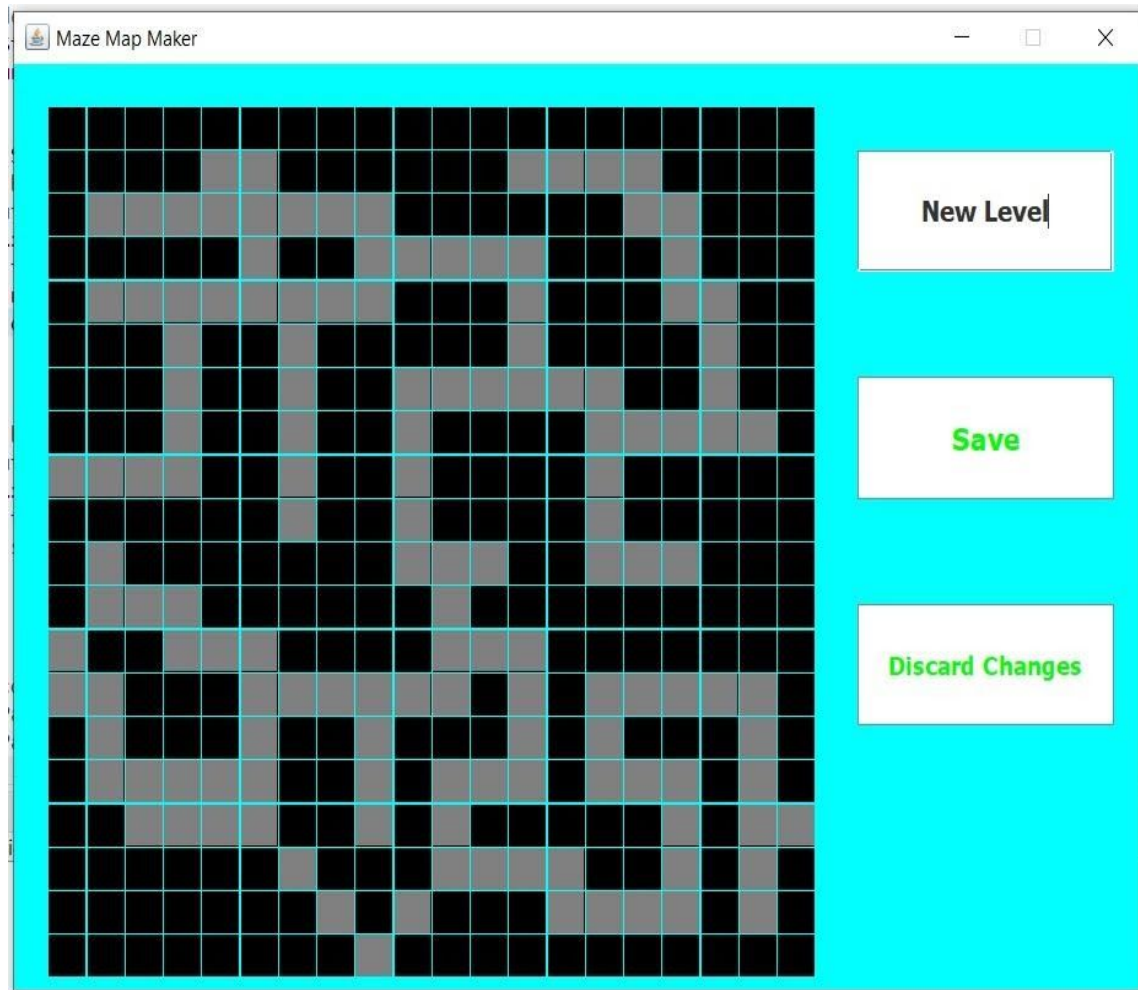
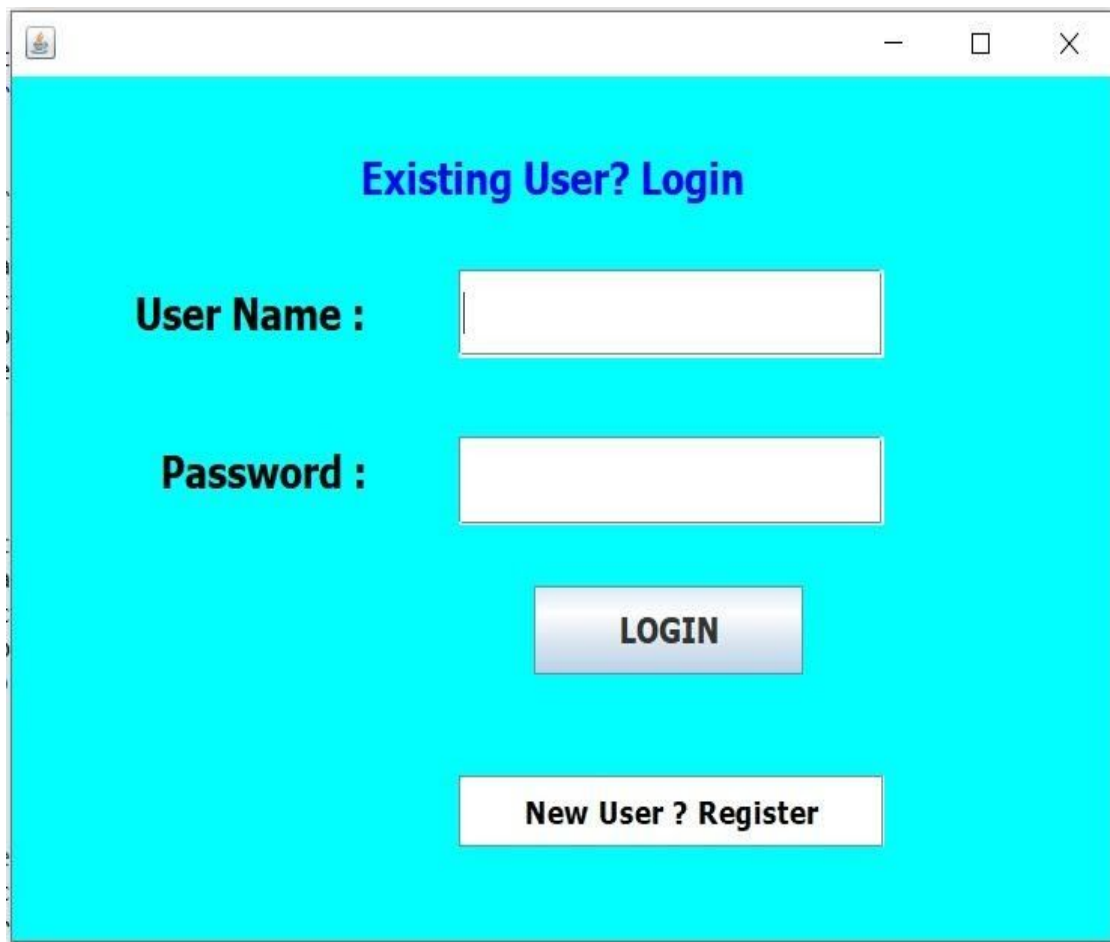


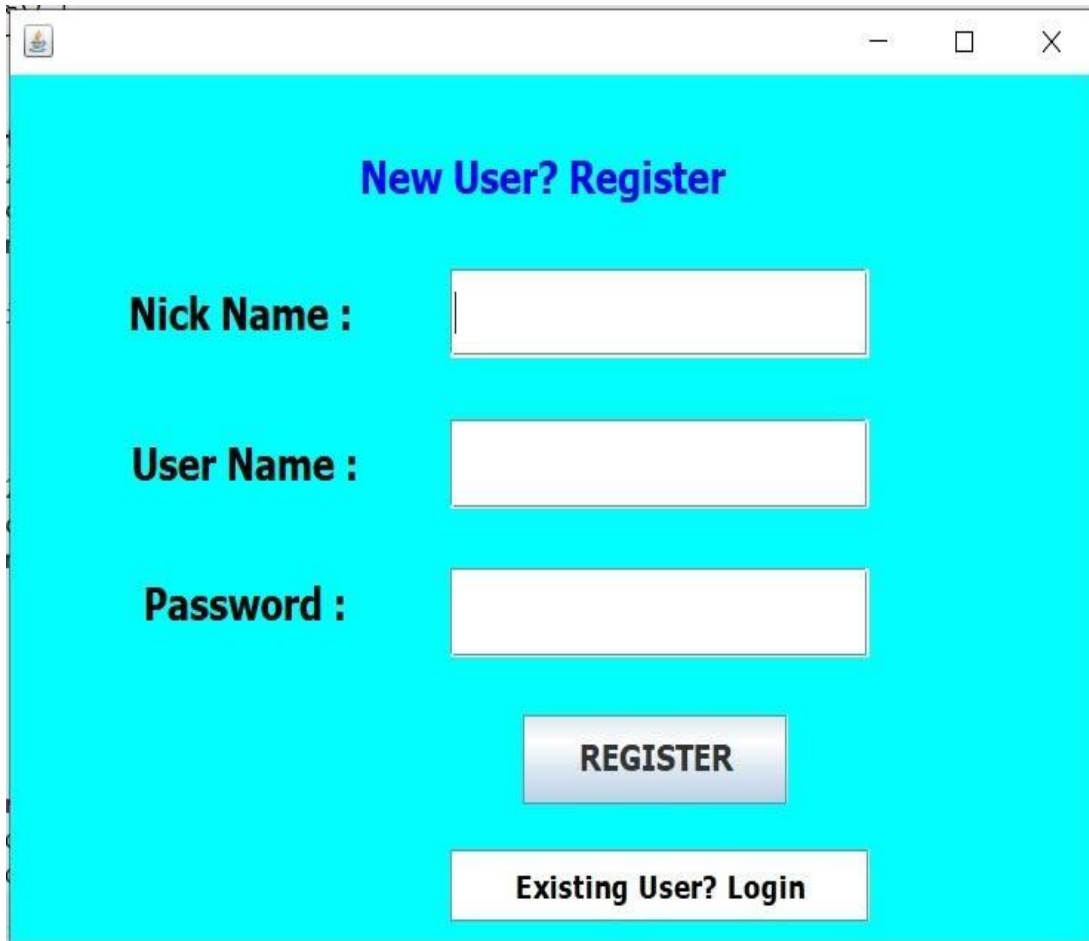
Fig.5: Option for admin to create Maze.



A screenshot of a web application window titled "Existing User? Login". The window has a cyan background and a standard Windows-style title bar with a minimize button, a maximize button, and a close button. The main content area contains the following elements:

- The title "Existing User? Login" in bold blue text at the top center.
- A label "User Name :" followed by a white text input field.
- A label "Password :" followed by a white password input field.
- A blue "LOGIN" button with white text, centered below the password field.
- A white button with black text that says "New User ? Register", centered at the bottom of the form area.

Fig.6: User Login



A screenshot of a web browser window titled "New User? Register". The window has a light blue background. It contains three input fields for "Nick Name", "User Name", and "Password", each with a corresponding label to its left. Below the input fields is a blue "REGISTER" button. At the bottom of the window is a white button with the text "Existing User? Login".

New User? Register

Nick Name :

User Name :

Password :

REGISTER

Existing User? Login

Fig.7: New User Registration

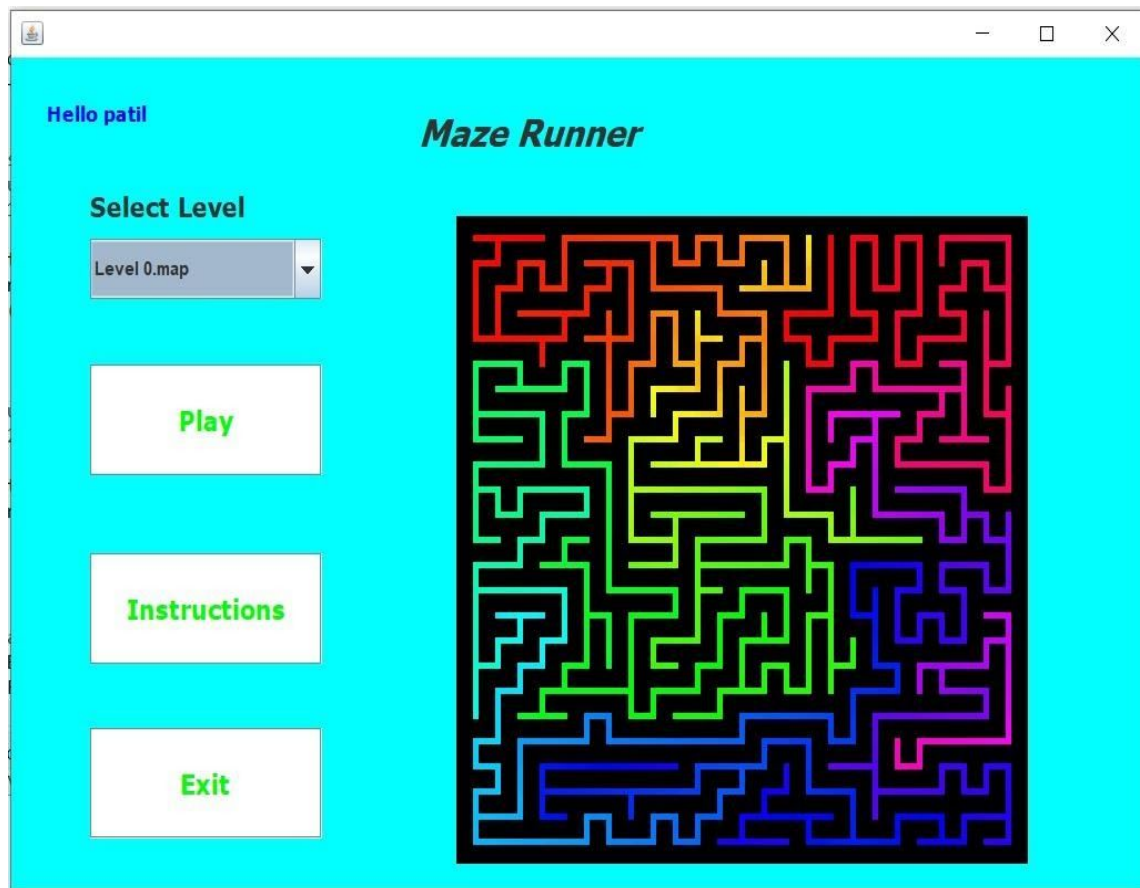


Fig.8: Menu for User after login

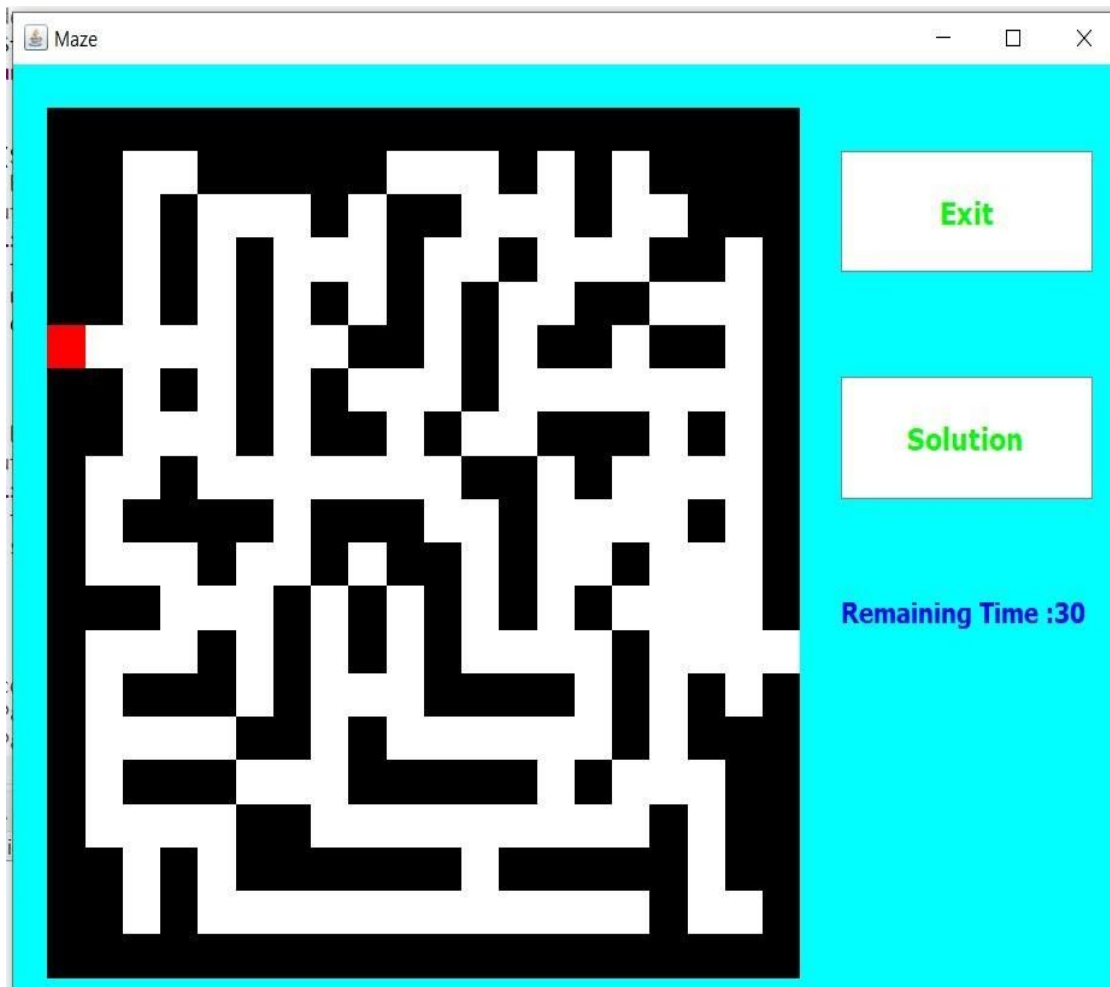


Fig.9: Maze Game During Play

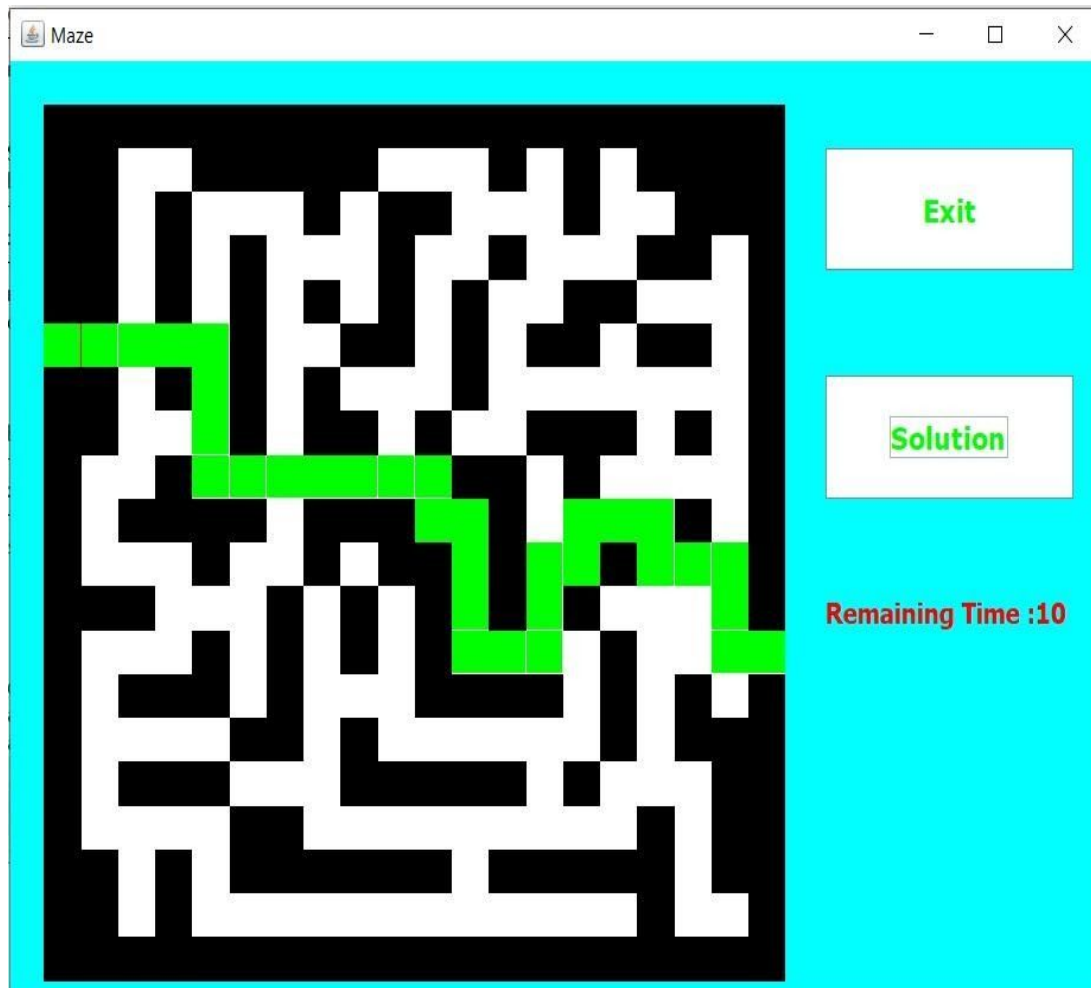


Fig.10: Solution of the maze using Dijkstra's algorithm
