StockBot Setup — Page 1

StockBot

Welcome to StockBot, the simple warehouse management system!
Press Next to begin configuration.

[Back] [Next] [Finish]

Blocked out to prevent mis clicks

Grid Configuration

Rows: 10

Columns: 10
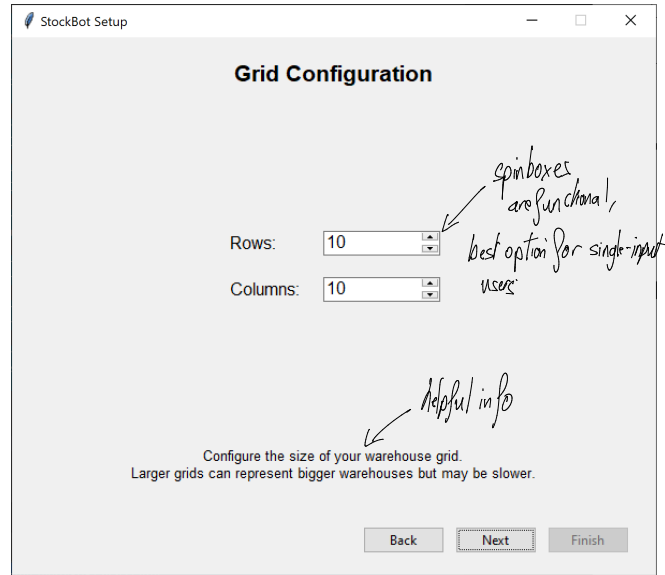
spinboxes are functional, best option for single-input users

helpful info

Configure the size of your warehouse grid.
Larger grids can represent bigger warehouses but may be slower.

[Back] [Next] [Finish]

buttons unlock as necessary

Basic Operations Guide

StockBot Basic Operations:

1. Find Path: Click "Find Path" to calculate the optimal route through all added points.

2. Obstacle mode: Add an obstacle to the grid.

3. Open grid visualisation: Open the visualisation window to see the path.

4. Query Stock: Check the current stock level at a specific position.

5. Update Stock: Modify the stock quantity at a specific position.

Change the algorithm and the genetic optimisation using the top bar.

Basic guide

[Back] [Next] [Finish]

should have a morphing button: next turns into finish, not 2 separate buttons

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StockBot

File Algorithm Options Help

Enter points: [   ]

Legend:
- **B** Start/End
- **Y** User Points
- **G** Path
- **R** Out of Stock
- **O** Low Stock (<2)

[Query Item Id]   [Obstacle mode]
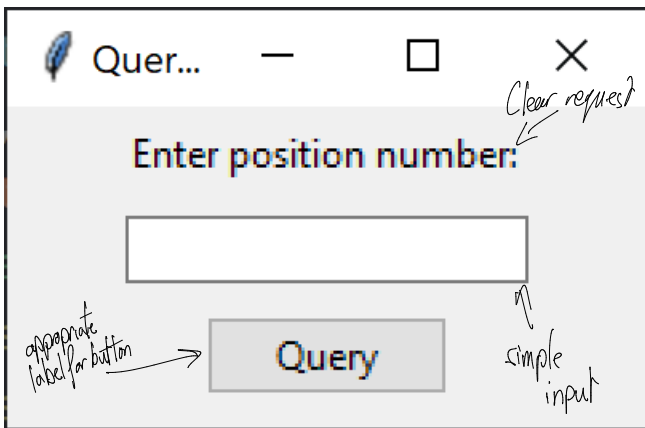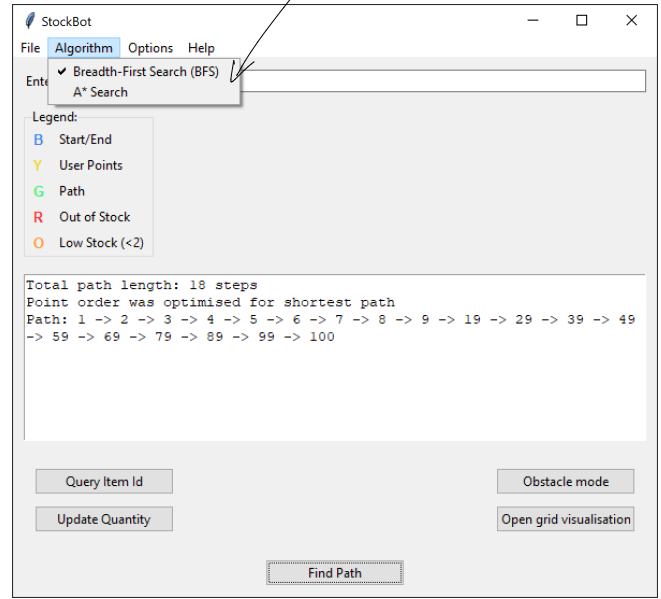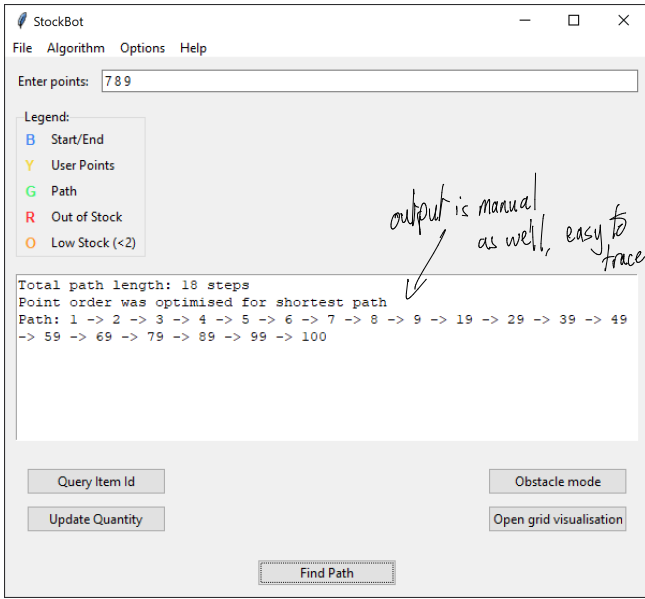[Update Quantity]   [Open grid visualisation]
[Find Path]
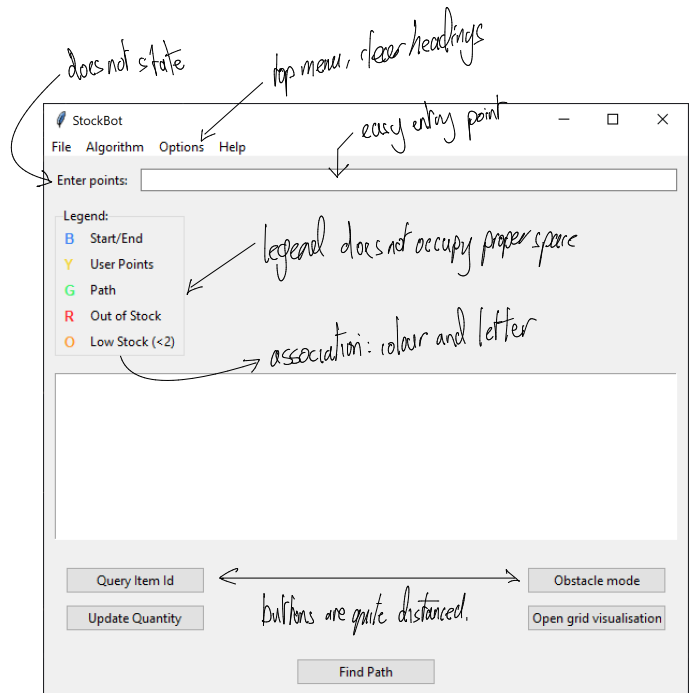
does not state

top menu, clear headings

easy entry point

legend does not occupy proper space

association: colour and letter

buttons are quite distanced.

Screenshot 1 (StockBot, page 5 of 9)

StockBot

File   Algorithm   Options   Help

Enter points: `7 8 9`

Legend:
- B Start/End
- Y User Points
- G Path
- R Out of Stock
- O Low Stock (<2)

```
Total path length: 18 steps
Point order was optimised for shortest path
Path: 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 8 -> 9 -> 19 -> 29 -> 39 -> 49
-> 59 -> 69 -> 79 -> 89 -> 99 -> 100
```

Query Item Id   Obstacle mode

Update Quantity   Open grid visualisation

Find Path

output is manual as well, easy to trace

Screenshot 2 (StockBot, page 6 of 9)

single choice radio button to prevent dual input

StockBot

File   Algorithm   Options   Help

✓ Breadth-First Search (BFS)
  A* Search

Legend:
- B Start/End
- Y User Points
- G Path
- R Out of Stock
- O Low Stock (<2)

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-> 59 -> 69 -> 79 -> 89 -> 99 -> 100
```

Query Item Id   Obstacle mode

Update Quantity   Open grid visualisation

Find Path

Screenshot 3 (Query window, page 7 of 9)

Quer...

Enter position number:

Query

Clear request?

appropriate label for button

simple input

Separate window = separation of concerns

Screenshot 4 (Path visualisation, page 9 of 9)

Colours make sense for representation: green being good, red = error, orange = warning etc.

obvious colours

Path visualisation

1	2	3	4	5	6	7 Qty: 0	8	9 Qty: 1	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

could add dark mode?

text colour changed for max clarity