LAB 17 EXERCISE: GUI

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- Q1. Design your own app by creating the main figure window, laying out the UI components in it, and configuring the appearance of the components by setting properties.
- Q2. Program the app to respond when a user interacts with it.
- Q3. Run the app to verify that your app looks and behaves as expected.

INPUT CODE:

```
fig = uifigure('Position',[100 100 752 250]); fig.Name = "Patients Data Management App";
uit = uitable('Parent',fig,'Position',[25 50 700 200]);
load patients
t = table(LastName, Age, Weight, Height, Smoker, ...
          SelfAssessedHealthStatus);
t.SelfAssessedHealthStatus = categorical(t.SelfAssessedHealthStatus, ...
          {'Poor', 'Fair', 'Good', 'Excellent'}, 'Ordinal', true);
uit.Data = t;
uit.ColumnName = {'Last Name', 'Age', 'Weight', ...
                  'Height','Smoker','Health Status'};
uit.ColumnWidth = {'auto',75,'auto','auto','auto',100};
uit.RowName = 'numbered';
uit.Position = [15 25 565 200];
function ageCheckCB(src,event)
                                                   % check if column 2
if (event.Indices(2) == 2 && ...
      (event.NewData < 0 || event.NewData > 120))
   tableData = src.Data;
   tableData{event.Indices(1),event.Indices(2)} = event.PreviousData;
                                                       % revert the data
   src.Data = tableData;
   warning('Age must be between 0 and 120.')
                                                       % warn the user
end
end
```

	Last Name	Age	Weight	Height	Smoker	Health Status
1	Smith	38	176	71	~	Excellent
2	Johnson	43	163	69		Fair
3	Williams	38	131	64		Good
4	Jones	40	133	67		Fair
5	Brown	49	119	64		Good
6	Davis	46	142	68		Good
7	Miller	33	142	64	✓	Good
8	Wilson	40	180	68		Good
9	Moore	28	183	68		Excellent
10	Taylor	31	132	66		Excellent
11	Anderson	45	128	68		Excellent
12	Thomas	42	137	66		Poor
13	Jackson	25	174	71		Poor
14	White	39	202	72	~	Excellent
15	Harris	36	129	65		Good
16	Martin	48	181	71	~	Good
17	Thompson	32	191	69	✓	Excellent
18	Garcia	27	131	69	✓	Fair
19	Martinez	37	179	70		Good
20	Robinson	50	172	68		Good
21	Clark	48	133	65		Excellent
22	Rodriguez	39	117	64		Fair
23	Lewis	41	137	62		Fair