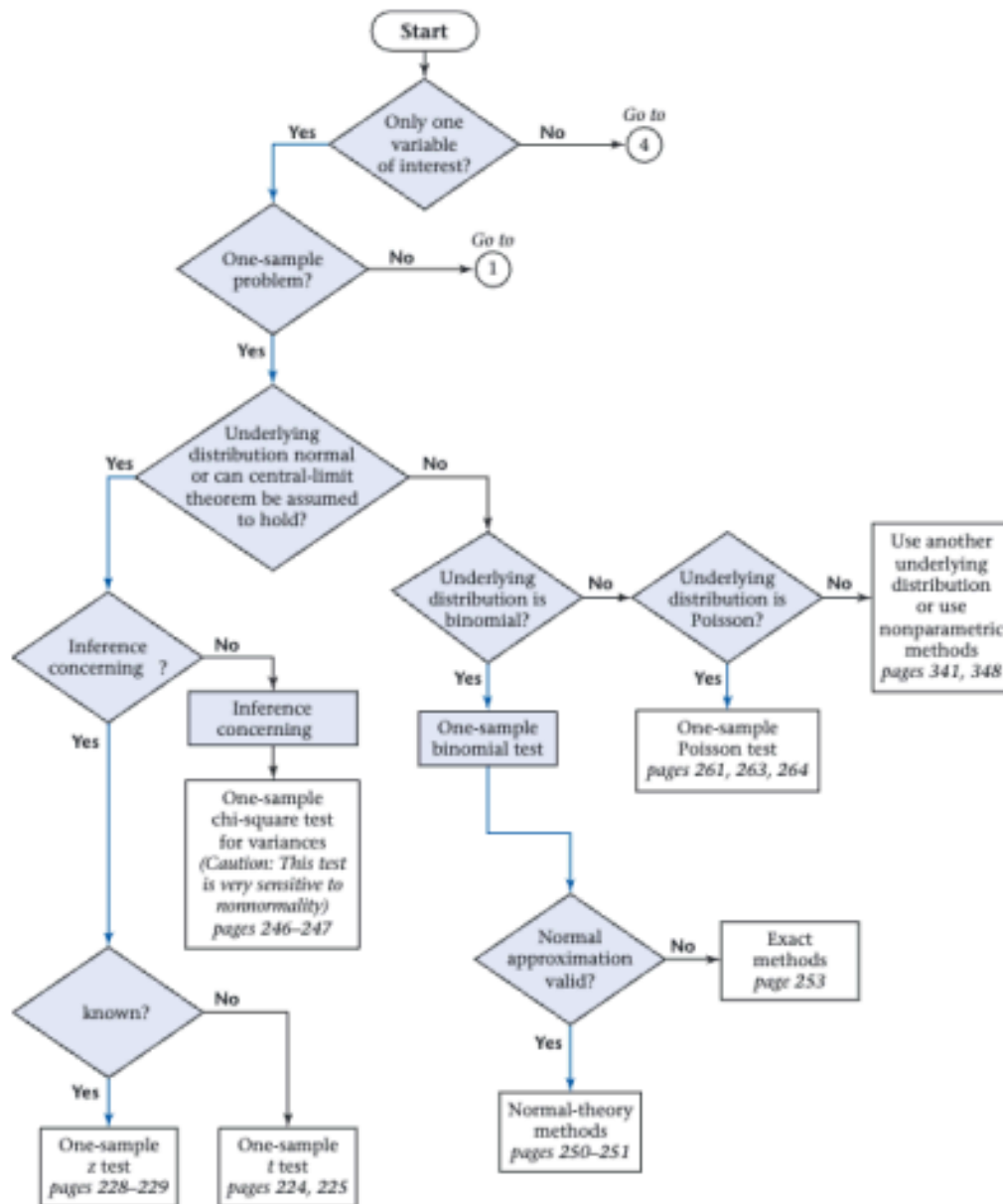
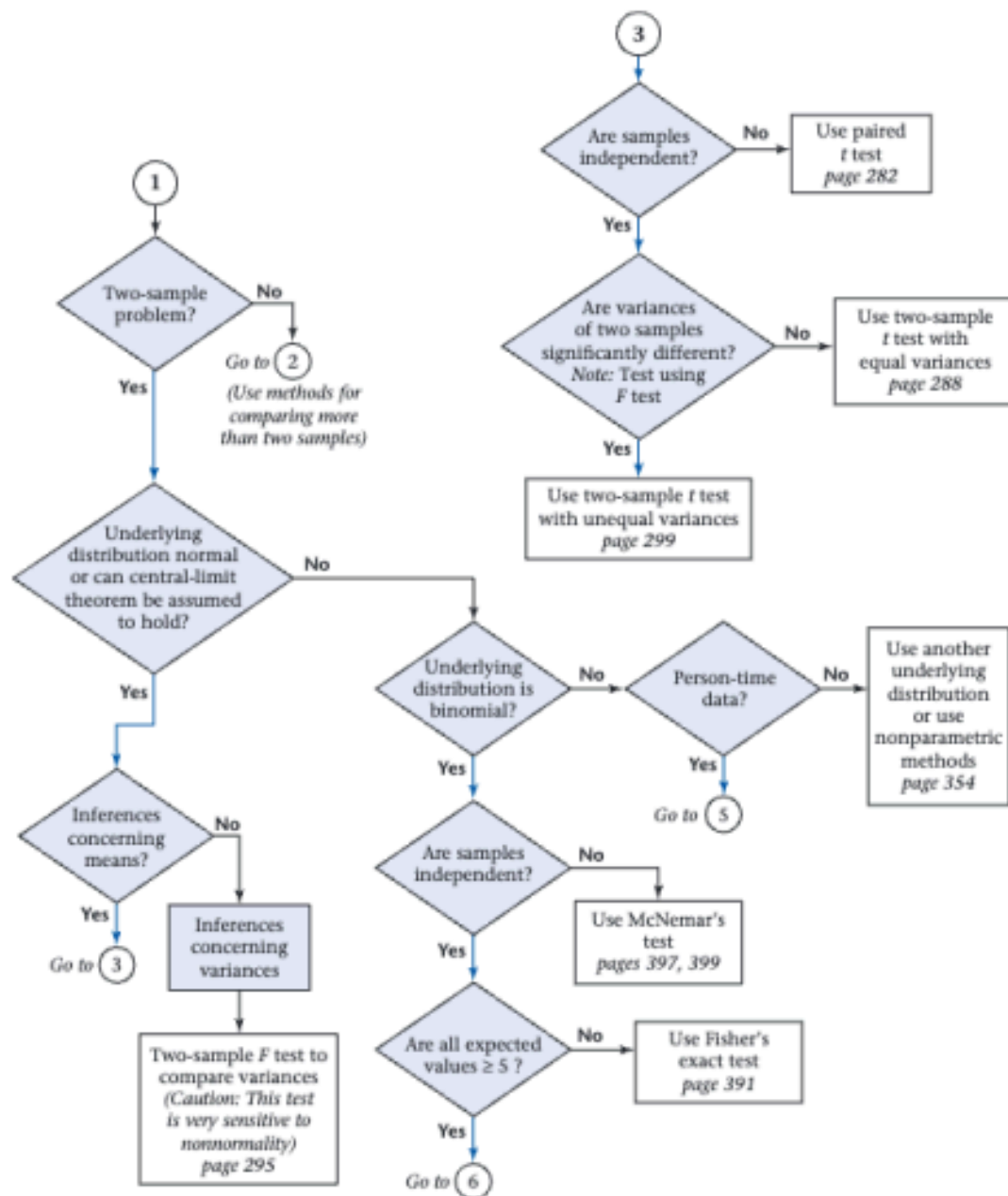
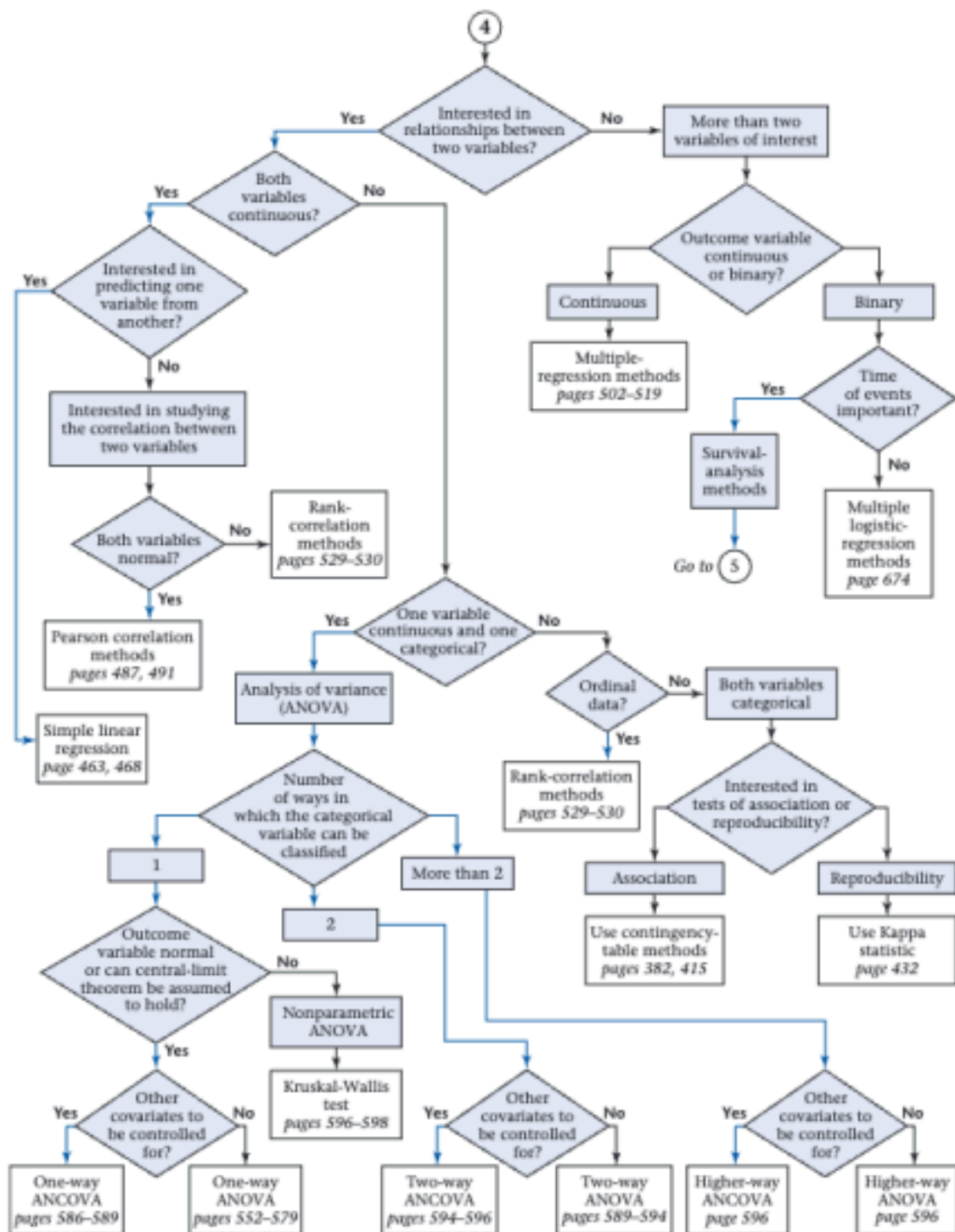


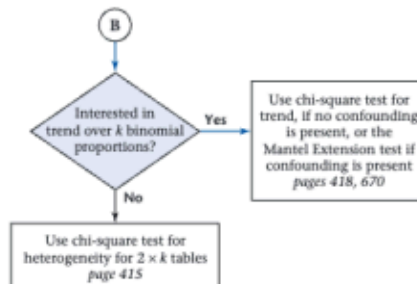
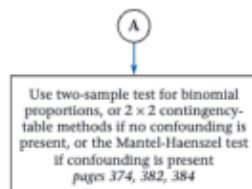
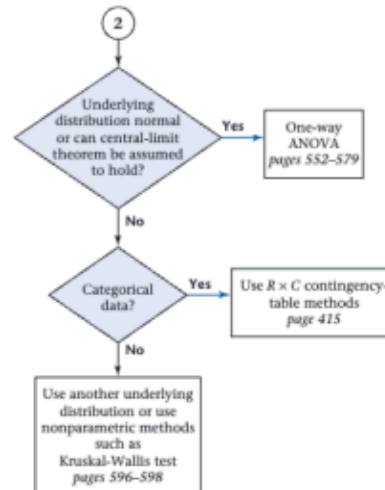
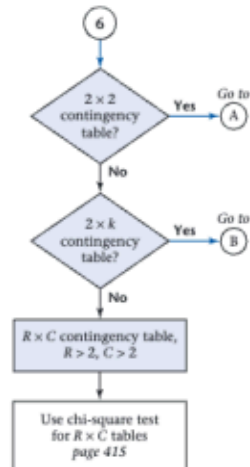
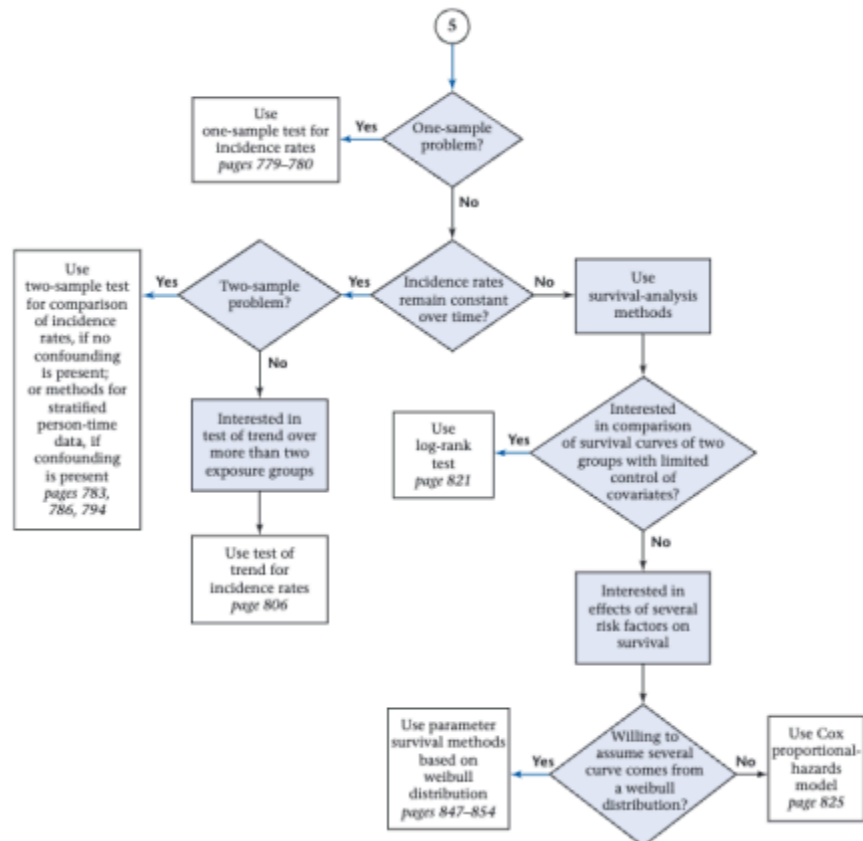
# STATISTICAL TESTS DETERMINATION WEBSITE

The flowchart provided below was used for creating the backend. The determination of the statistical tests was enabled by it.









The website was built using CSS, HTML and Javascript. A description of the various functionalities has been provided. The website can be run by opening the welcome.html page in the browser of the user's choice. This website was made using a local server and has not been hosted elsewhere as of now.

## Instructions to run the server

The webserver must be always started from the welcome page as the local storage for the server needs to be cleared for every run.

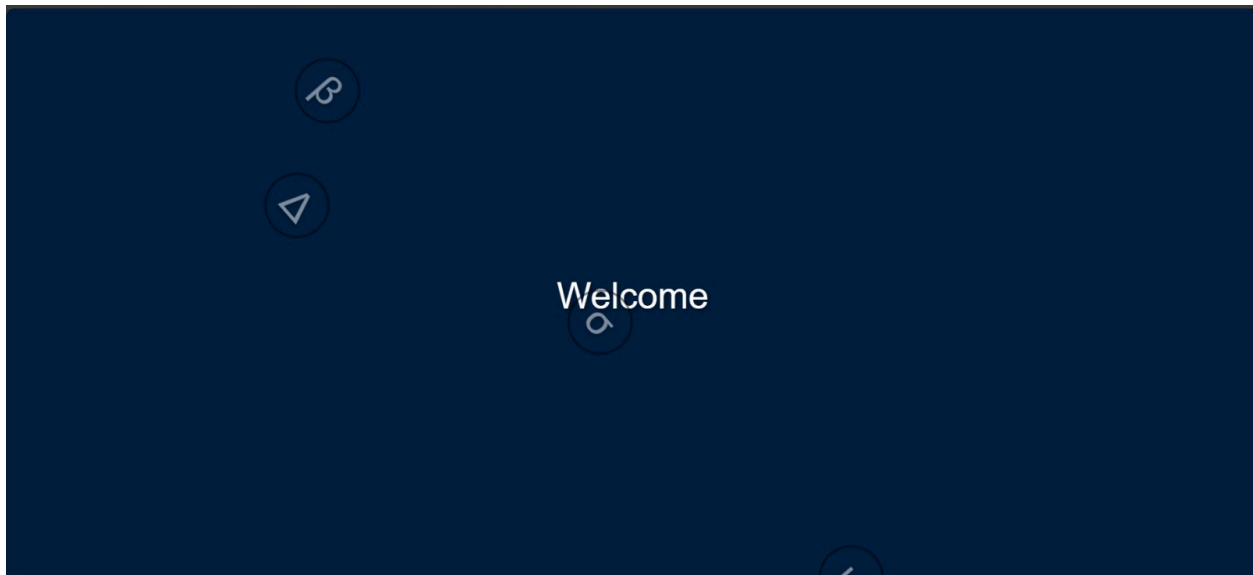
This website can be run by using the command:

```
python -m http.server
```

and creating a localhost server or by simply opening the welcome.html page in your browser.

## Landing Page (code in welcome.html)

The landing page says Welcome in the centre. We have used animation to show flying symbols in the background. When the user clicks on the text that says 'Welcome', they will proceed to the next page.



## Questionnaire Pages (code in page1.html)

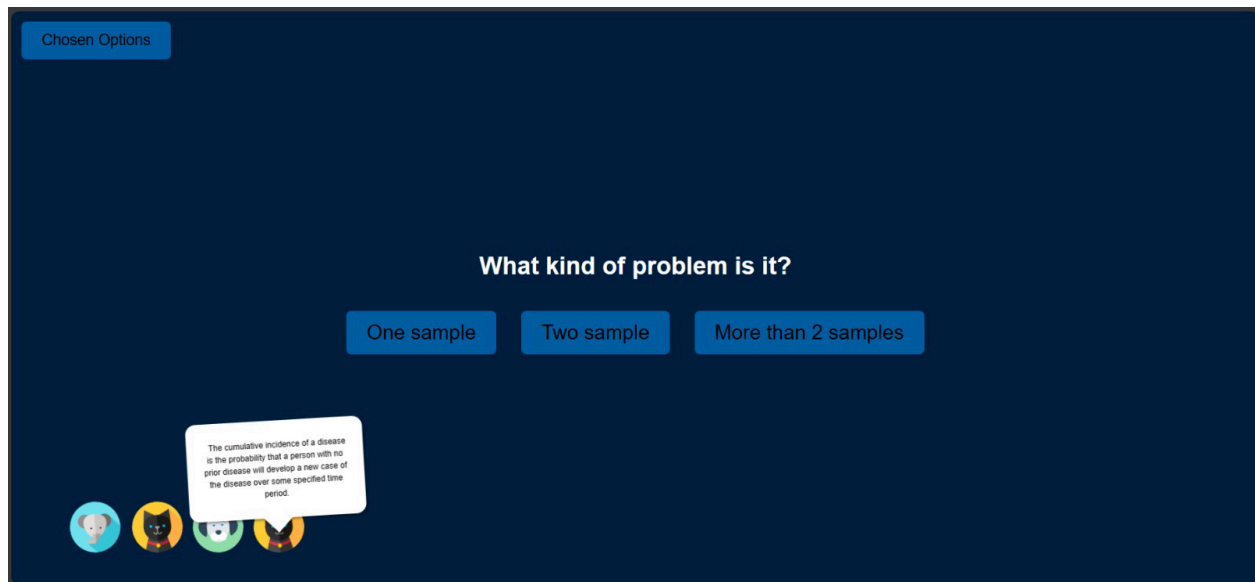
When the user is redirected to this page, the first question will be displayed on their screen. The user must answer a series of questions about their dataset and requirements. The backend (javascript code) will then predict the most appropriate statistical test(s) they can use for conducting their desired tests.

After completing the questionnaire, the most suitable test for the user will displayed on the screen along with confetti from both sides to indicate that the user has gotten the desired response and has reached the end of the website.

If at any point, the user would like to see what they have previously answered, they can click on the 'Chosen Options' button which will redirect them to the recorded responses page.

### Classroom Trivia (Bottom Left)

The website has used bobblehead animation to create the simulation of a classroom at the bottom-left of the screen. A speech bubble has been added to display statistical trivia to make the website more interactive. With every question, a random fact is displayed by a random bobblehead. It makes the screen more graphic, and colourful and an overall pleasant experience for the user. They would also learn something that could be helpful in the study they are conducting.



### Recorded Responses Pages (code in page2.html)

The user can see what they have responded to previously. They can also see the results that they got in previous sessions. Upon clicking the 'Back' button, they can directly go back to the session and continue with the further questions from the page they were redirected from.

Back

- The number of variables needed: One
- What kind of problem is it?: Two Sample
- Underlying Distribution normal or can CLT be assumed?: Yes
- Inference concerning means?: No
- Test: Inference concerning Variance: Two sample F-test

#### Team Members

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