

Name: AIDEED IQMAL BIN ISMAIL

Institution: UITM JASIN MELAKA

Course: DIPLOMA COMPUTER SCIENCE

Date: 15 JUNE 2024

Pre-Assessment

1. Why are you interested in doing an internship with Infinity Wave and what drew you to choose our company?

I am interested in interning at Infinity Wave because I have a strong passion for coding. Infinity Wave's focus on coding and software development aligns perfectly with my career goals, and I am eager to learn and contribute to your innovative work environment.

2. Tell us what you know about our company and our products/services.

Company – Specialise in software development and IT solution to clients

Product/Services – (FOX) Custom software development for facilities & assets management

– (Consulting) The company provide various IT services

3. What are the top 3 things you want to gain from your internship?

-Develop professional growth in management coding skills

-Experience working in teams and collaborate on project

-Gain practical real world experience corporate environment in technologies and system

4. How do you prioritize tasks?

-I will prioritize by analysing the urgency and importance, I will allocate my time on the long-term project so that I can avoid last minute task

5. Name one of you biggest career accomplishments.

-

6. Which traits do you think a successful intern has?

-Open to learn new skills and get to adjust two different tasks in work environment

-Stepping out from comfort zone and taking the proactive steps to learn and contribute the ideas to teams

7. Where do you see yourself in 3 years?

-Working as a fulltime software developer in Singapore

8. Do you possess own transportation, and how do you plan to commute to our office in Sunway Iskandar, Medini during your internship period?

-I do have my own car that I can commute everyday to the office in Sunway Iskandar Medini

Technical Assessment

To Do List App

Develop a “To do list” web app or mobile app (you are free to choose) with the following requirements:

- User will be able to sign up & login. **X**
- User will be able to edit profile and reset password. **X**
- User will be able to add task and create a to do list. **X**
- The to do list will have options to set a notification reminder on chosen date & time, save and retrieve list items. (optional)
- Create category for the list. (optional)
- User should be able to change the task status as to do, urgent, done etc. **X**
- Use your own creativity to expand the functionality as you see fits.

To submit a git repository with instructions on how to run your assignments or web app link to view your assignment or an apk file if you are developing a mobile app.

Technology and Frameworks

Feel free to set up the assignment with your choice of language & framework.

Styling can be done via CSS, or a CSS-in-JS framework of your choice

Open Ended Questions:

Software development cycle.

1. What is Agile & how is Agile different from other software delivery approaches?

-Agile is a way to make software by breaking work into small parts and getting feedback for each part

-Some other method plan everything at the beginning

2. What is the difference between load and stress testing?

-Load testing is testing a website if it can handle many users at the same time

-Stress testing is pushing a website to its limit to see their capabilities on the web features

3. When is refactoring useful?

-Make my code look well organised and arrangeable

JavaScript, HTML, CSS

4. Explain how you would ensure that your web design is user-friendly and what kinds of steps would you use?

-Keep the web design simple and organised and making it clear menu and big buttons.

-Get feedback from nearest friends on the website to optimise the practicality of the website

5. What is the best way to include CSS Styling in HTML?

-Make a CSS file separated from the main HTML

6. What do you understand about Cookies in JavaScript?

-Minor data of the user that will be received by the website for business use

7. Given a string, reverse each word in the sentence using Javascript.

- Problem: For example Welcome to this Javascript Guide! should become emocleW ot siht tpircsavaJ lediuG.

Django framework Python

8. What is the difference between Flask and Django?

- Flask is simple and lightweight

-Django have many featured and heavy

9. In which case or application is more suitable to use Python as back end?

-Web Development, Heavy App,Machine Learning and AI

10. Write a program in Python to produce Star triangle.

Output:

```
*  
  
***  
  
*****  
  
*****  
  
*****  
  
*****  
  
*****  
  
*****  
  
*****
```

Amazon Web Services

11. Are you familiar with cloud systems? What are their pros and cons?

-Store data online or use an app online

- pros, save up a lot of local storage

-cons, cant be use offline

12. Mention what the difference between Amazon S3 and EC2 is?

-Amazon S3 : storage store files like a server

-Amazon EC2 : remotely use a computer

Code versioning tools.

13. What is Git?

-Git is a software to push code and track modified history into Github

14. What is Git fork? What is difference between fork, branch and clone?

-Fork taking over a copy of someone's project

-Branch

-Clone is taking a copy of exact same project on my pc

Software Design & Testing.

15. What are the different methods of testing?

-Unit Testing that test small part of code one by one

16. Explain Bug Life Cycle or Defect life cycle.

-Fix a bug

17. Explain Load Testing on websites?

-Load testing is a test put on website with many user at the same time

18. How would you perform testing for mobile app?

-Test the app on different mobile device because mobile device comes in different shapes