**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.**

1. 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**

1. 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**

1. 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**

1. Name one of you biggest career accomplishments.

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1. 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**

1. Where do you see yourself in 3 years?

**-Working as a fulltime software developer in Singapore**

1. 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?
2. What is the difference between load and stress testing?
3. When is refactoring useful?

**JavaScript, HTML, CSS**

1. Explain how you would ensure that your web design is user-friendly and what kinds of steps would you use?
2. What is the best way to include CSS Styling in HTML?
3. What do you understand about Cookies in JavaScript?
4. Given a string, reverse each word in the sentence using Javascript.
   * Problem: For example Welcome to this Javascript Guide! should be become emocleW ot siht tpircsavaJ !ediuG.

**Django framework Python**

1. What is the difference between Flask and Django?
2. In which case or application is more suitable to use Python as back end?
3. Write a program in Python to produce Star triangle. **X**

Output:

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**Amazon Web Services**

1. Are you familiar with cloud systems? What are their pros and cons?
2. Mention what the difference between Amazon S3 and EC2 is?

**Code versioning tools.**

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

**Software Design & Testing.**

1. What are the different methods of testing?
2. Explain Bug Life Cycle or Defect life cycle.
3. Explain Load Testing on websites?
4. How would you perform testing for mobile app?