**Ramaiah Polytechnic**

(Recognized by the Govt. of Karnataka)

M. S. R. I. T Post, M. S. R Nagar, Bengaluru, Karnataka – 560054.



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Assessment and Assignment**

On

**Full Stack Development**

**(20CS52I)**

**5th Semester**

Submitted By:

**YOGITHA.HD**

**476CS22063**

**Under the guidance of:**

**Aruna.N**

**CERTIFICATE**



THIS IS TO CERTIFY THAT SMT/SRI ­­­­­­­­­­­­­­­ **YOGITHA.HD**

HAS SATISFACTORILY COMPLETED THE COURSE OF ASSIGNMENT IN PRACTICAL **FULL STACK DEVELOPMENT**

PRESCRIBED BY THE **DEPARTMENT OF TECHNICAL EDUCATION**

UNIVERSITY **RAMAIAH POLYTECHNIC** IN THE LABORATORY OF THIS COLLEGE IN THE YEAR 2023-2024.

**Signature of the teacher in charge of the batch**

**Date:**

**HEAD OF THE DEPARTMENT**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Reg.no: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Examination Center: \_\_\_\_\_\_\_\_\_**

**ACKNOWLEDGEMENT**

I would like to express my special thanks to the HoD \_\_\_\_\_\_\_\_\_\_ as well as to the faculty \_\_\_\_\_\_\_\_\_\_\_, who gave me the opportunity to do this wonderful portfolio. It also helped me do a lot of research, and I learned many new things. I am also thankful to all the other faculty members of the Computer Science department.

I would also like to thank my parents who helped me a lot by giving me a lot of support while working on this portfolio.

Thinking you once again,

YOGITHA.HD

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**Assessment Index**

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| Sl. no. | Topics |
| 01. | Case Study: Digital Transformation in IT/OT Convergence |
| 02. | Identify the cloud service types and list their characteristics. |
| 03. | List the step-by-step process to Atlassian Jira. |
| 04. | Report on Various JavaScript Objects. |
| 05. | Report on React and JSX. |
| 06. | Report on React Hooks. |
| 07. | Introduction to Spring and Spring Framework. |
| 08. | Hibernate and ORM Framework in Spring. |
| 09. | Explain about NoSQL with brief details of commonly used NoSQL Databases. |
| 10. | Report on performing CRUD operations in MongoDB. |
| 11. | Introduction to Docker, Docker File, and Components of Docker. |
| 12. | Report on Kubernetes. |

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**Assignment Index**

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| Sl. no. | Topics |
| 01. | Industrial Visit. |
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| 03. | Comparison of Cloud Servies like IAAS, PAAS and SAAS. |
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| 05. | Testing Single Page Applications. |
| 06. | State Management with Redux. |
| 07. | Converting Monolithic Applications to Microservices Architecture. |
| 08. | 1. Spring Transactions.  2. Explore and Create (MongoDB, GUI Tool)  3. Transaction Management. |
| 09. | Explain the benefits of ACID and BASE in NoSQL. |
| 10. | MongoDB Implementation, Administration, and Deployment. |
| 11. | Automation and Cloud Testing Techniques. |
| 12. | Report on Cloud Orchestration. |