

Seminar Report

On

Micro Frontends

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Under the guidance of

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**MIT-World Peace University (MIT-WPU)**

**Faculty of Engineering**

**School of Computer Engineering & Technology**

**CERTIFICATE**

This is to certify that Mr. Hrishikesh Vaze of B.Tech., School of Computer Engineering & Technology, Semester VII, PRN. No. 1032190087, has successfully completed seminar on

Micro Frontends

To my satisfaction and submitted the same during the academic year 2022 - 2023 towards the partial fulfilment of degree of Bachelor of Technology in School of Computer Engineering & Technology under Dr. Vishwanath Karad MIT- World Peace University, Pune.

Prof. Aparna Kamble                                 Prof. Dr. V. Y. Kulkarni

Seminar Guide                                                           Head

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Abbreviations

MF – Micro Frontends

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Thanking You

Hrishikesh Vaze

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complete

Abstract

Micro Frontends are increasing in popularity. They are being adopted by many organisations. They enables splitting of monolithic frontend architecture into smaller micro applications which are independent to each other.

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Keywords

micro-services, micro-frontends, frontend

Introduction

The popular server-side programming languages, such as Java, C/C++, and Python, provide abstractions for breaking down programme complexity into modules. However, these languages are intended for creation. of single executable artefacts, also known as monoliths, and their modularisation abstractions rely on the sharing of machine resources (memory, databases, files). Because the modules of a monolith rely on shared resources, they cannot be executed independently. Microservices architecture solves these issues on backend server technologies. However similar architecture on frontend is still immature and is under interest of all.

Micro Frontends is a architecture which is inspired from Microservices. However story is not same on both side, i.e. frontend and backend. As backend is used by frontend (code written by developers) and frontend is used by end customers, so it needs to be optimised at the best to improve user experience, and at the same time reduce complexity while developing.

This report gives brief overview of micro frontends, its motivation, benefits and