FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)

Hormis Nagar, Mookkannoor PO, Angamaly, Kochi
Accredited by NAAC with 'A+' Grade

DEPARTMENT OF COMPUTER APPLICATIONS

SYNOPSIS OF THE MAIN PROJECT

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Project Title	VirtuWork: A Global Hub for Task-Based Services
Area of the Project	Web Development and Machine Learning
Date of Submission	

Description of Project:

VirtuWork is a comprehensive web-based platform designed to connect clients with freelancers capable of performing various remote tasks. The platform supports diverse task categories such as coding, graphic designing, animation, content writing, and more. Key features and functionalities include:

Reward System:

A dynamic reward system based on client ratings and feedback. Freelancers earn points for successful task completions, which can be redeemed for discounts on future payments.

Task Recommendation:

Machine learning algorithms suggest tasks tailored to users based on their profiles, skill sets, preferences, and previous activities.

<table>
<tr><td colspan="2">Task Progress Tracking:

Clients can monitor the progress of tasks through an intuitive dashboard, ensuring transparency and accountability.

Admin-Mediated Communication:

Direct communication between clients and freelancers is restricted. All interactions are facilitated through the admin to ensure a secure and professional environment.

Admin Fee:

The admin receives 10% of the task payment as a service fee, making the platform sustainable.

Payment Integration:

Secure payment gateways with the option to use earned rewards for partial or full payments.</td></tr>
<tr><td>Front End & Back End Tools</td><td>Frontend:

• React.js for an interactive and dynamic user interface.

Backend:

• Node.js with Express.js for server-side functionality.
• MongoDB for database

Machine Learning Tools:

Python: For developing and deploying machine learning models.

Scikit-learn: For implementing recommendation systems and regression models.

Flask or FastAPI: To integrate machine learning functionalities with the backend.</td></tr>
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