



SOUTH EASTERN UNIVERSITY OF SRI LANKA
UNIVERSITY BUSINESS LINKAGE CELL

INVITATION FOR PROPOSALS

Hiring Full Stack Freelance Developer for the Research Project AI-Enabled Systems and Methods for Retail Sector

University Business Linkage (UBL) is a dedicated body operating to promote research, development, innovation, and commercialization of research outcomes from the university to industry and vice versa. The UBL of the South Eastern University of Sri Lanka seeks to obtain the services of a Full Stack Freelance Developer (FSFD) for the research project AI-Enabled System and Methods for Retail Sector.

Interested FSFDs are invited to submit proposals. The proposals should be submitted according to the Terms of References (TOR) in the prescribed submission format provided. Duly prepared proposals should be addressed to **The Director – UBL, University Business Linkage, South Eastern University of Sri Lanka, University Park, Oluvil #32360** to reach by registered post on or before **2.00 PM on May 12th, 2023**. The proposal along with the supporting documents must be signed by the FSFD.

TERMS OF REFERENCES

1. Required Qualifications & Experience

- HND in IT or higher qualification from a recognized institution.
- Minimum 5 year experience in the IT industry in software or related roles which include native mobile application and java client and server development experience.
- Demonstrable experience in Model Driven Development using java. MDD Experience in native android is preferable.
- Prior experience in the following technologies and tools
 - SQLite database, MySQL database. Database synchronization solutions
 - Android native UI development
 - Java based Business Process Management (BPM) systems or workflow

engines.

- Rest architecture
- Java Servlet, JPA, JPQL, Hibernate, Tomcat application server
- Light weight Linux desktop environments and command line
- Netbeans, VS Code, Android Studio, My SQL workbench

2. Required Competencies

- Ability to carry out the key tasks effectively and efficiently.
- Ability to work with Academics, Researchers, Senior Executives, and the UBL staff.
- Ability to function effectively in a team environment inspiring trust and cooperation of other stakeholders and project team members.
- Ability to meet deliverables within the stipulated time frame.
- Excellent command of computer literacy.

3. Method of Appointment

- All submitted proposals will be evaluated by the TEC approved by the Vice-Chancellor to select a suitable FSFD to carry out the task.
- The assignment will be valid for a six (06) month contract period. The contract may be renewed based on satisfactory performance and the requirement.
- The agreement may be modified with the written consent of both parties during the period.

4. Scope of the Activity

The research project AI Enabled Systems and Methods for Retail Sector is an attempt to address the problems faced by the local retailers through AI, software and hardware optimization and usability research. Research team has implemented a mobile phone application prototype using java based workflow engine as a backend. The FSFD needs to work closely with the research team in order to extend the functionalities of this client server mobile application. The FSFD is expected initiate the work using the existing code base as a starting point.

5. Remuneration

Payments will be made upon completion of each mile stone and submission of the activity report with the recommendation of the Principal Investigator (PI).

6. Reporting Obligations

The selected FSFD will report to the PI. The FSFD is should be available at least one day onsite per week during the period of the contract.

7. Ownership of the Assignment

This assignment is funded by the World Bank Project, Accelerating Higher Education Expansion and Development in collaboration with the Ministry of Education. The University Business Linkage of the South Eastern University of Sri Lanka is the implementing body. As such, the University shall be the owner of the assignment and will reserve the Intellectual Property Rights for all deliverables of the assignment under the terms and conditions given in the IP policy of the University. The FSFD will have no right of claim to the assignment or its outputs once it is completed and no rights to use Data and Information gathered through the assignment for other purposes without written permission from the Vice-Chancellor of the SEUSL. Any reports or data or information produced as a part of this assignment shall be handed over to the university in soft and hard formats.

8. For Enquiries

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The Director
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17. 04. 2023