FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
Terms of Reference for Consultant Category C *

Name:	Phillip Junior Nzau
Job Title**:**	Frontend Developer
Division/Department:	Office of Emergencies and Resilience, OER
Programme/Project Number:	OSRO/GLO/111/USA
Duty Station:	Nairobi, Kenya

Expected Start Date of Assignment: 26/04/2024		**Duration:** 03/12/2024
Reports to: *Name:* **Etienne Juvanon du Vachat**	*Title*:	Emergency and Rehabilitation Officer, OER

* Please note: If this TOR is for Consultant / PSA.SBS contract, the minimum relevant experience required **for the assignment** is as follows:
  1 year for a category C;   5 years for a category B;   12 years for COF category A;   15 years PSA or COF category A (World Class Expert);

** Please enter a short title (max 25 chars) for this assignment.

GENERAL DESCRIPTION OF TASK(S) AND OBJECTIVES TO BE ACHIEVED

Under the overall supervision of the Resilience Expert, coordinator of the OER cash and voucher team, the direct supervision of the Operations and Programme Specialist, and in close collaboration with the CSI Division and responsible Information Technology Officer; the front end developer will act as part of the OER MIS team tasked with designing, developing and maintaining front end code in the IDEA system which is used for managing beneficiary data in support of the implementation of FAO's agenda at a global, regional, sub-regional and/or country level.

FAO currently uses a fleet of cloud servers to support mobile and web-based, database-driven software to register beneficiaries (including the collection of biometric data) and, leverages this information to facilitate their entitlement disbursements. The front end developer will support the team in the design, development and maintenance of ReactJS components, to ensure industry standard, performant, responsive and secure web app.

In line with industry best-practice standards as well as FAO software development standards, the front-end developer will:

- Gain a deep technical understanding of existing systems in use within FAO, including identification of relative strengths and weaknesses as well as potential overlap between systems.

- Regular meetings with the back development team, scrum master, delivery manager and product owner to discuss user interface ideas and improvements.

- Wireframing and review application requirements and UI/UX designs.

- Review and optimize React applications across all devices and browsers.

- Write clean, maintainable, and efficient code; engage in peer code reviews.

- Developing and implementing highly responsive and efficient user interface components using ReactJS/JSX and related concepts and technologies.

- Writing application interface code using JavaScript (JSX) following ReactJS workflows.

- Implementing robust testing strategies to ensure application reliability and performance.

- Optimize components for maximum performance across a vast array of web-capable devices and browsers.

- Testing and troubleshooting interface software and debugging application code.

- Developing and implementing front-end architecture to support user interface concepts.

- Monitoring and improving front-end performance.

- Documenting application changes and developing updates.

- Perform any other tasks relevant to the profile as may be assigned.

KEY PERFORMANCE INDICATORS

Expected Outputs:	Required Completion Date:
• Gain a deep technical understanding of existing systems in use within FAO, including identification of relative strengths and weaknesses as well as potential overlap between systems.	At the end of the first month of assignment
• In consultation with various stakeholders, develop a plan to improve the existing ReactJS front end code	
• Come up with an SOP document detailing actionable steps to improve the front-end application actively and passively in terms of structure, performance, security and efficiency.	
• Create new UI/UX components as needed based on feature requests or bug reports from end users	Throughout the entire assignment
• Review existing ReactJS components for continuous improvements in terms of performance, security, and responsiveness.	
• Review existing ReactJS components upon receiving change requests to existing features	
• Ensure entire front-end application fully supports internationalization and localization	
• In consultation with other stakeholders, offer suggestions on improvements to backend REST APIs	

ACADEMIC AND WORK EXPERIENCE QUALIFICATIONS

Education:
Bachelor's degree in information communication technology (ICT), Computer Science or Computer Engineering.

Work Experience:
A minimum of three (3) years' work experience in projects involving front end JavaScript based development, specifically in ReactJS (JSX).

Technical Competencies
At least two (3) years' experience working with ReactJS, NodeJS/NPM, JavaScript, HTML, CSS, and REST APIs is required.
Portfolio of previous front end development work in ReactJS.
Knowledge of Redux toolkit will be an added advantage.
Ability to write clean, reliable, and highly maintainable code

Languages:
Working knowledge (level C) of the FAO official language used for communication (English) is required; working knowledge of the local language(s) (French, Arabic or Spanish) will be an advantage.

IT Skills:
Ability to effectively use standard office software, such as MS Office (Windows, Word, Outlook, Excel, Exchange). Ability to use accounting software and other information systems and databases to insert data, make inquiries, retrieve/define ad hoc reports and analyses, and edit results in an appropriate format.

Office Management Skills:
Systematic, well-structured, and efficient approach to work assignments. Analytical ability, accuracy, and consistency. Exercise diligence and care in dealing with records and expenditures.

Interpersonal Communications and Teamwork Skills:
Cooperative spirit, flexibility, and openness to work in an international environment. Tact and courtesy. Ability to establish and maintain effective working relationships with people of different national and cultural backgrounds. Ability to effectively carry out training and capacity development activities for the end-users of the application.

Travel and Location:
The incumbent must be ready and able to travel to support different FAO field offices with training and seminars.