

Terms of Reference (ToR)

Position: Software Developer - Frontend (React / Next Js)

Deadline: April 8, 2024

About OLE Nepal

OLE Nepal (Open Learning Exchange Nepal) is a social benefit organization dedicated to enhancing teaching-learning in schools through the integration of technology and to provide uniform access to quality educational materials across different geographic areas and socio-economic strata.

OLE Nepal develops and distributes free educational content, trains teachers to integrate technology in classrooms, implements technology interventions in rural schools, and helps build local capacity in technology and education.

We are a team of social workers, educators, designers, developers, and individuals dedicated to leveraging technology to improve the quality of education in public schools across Nepal. To learn more about our team, visit: <https://olenepal.org/our-team/>.

Project Overview

OLE Nepal is implementing a project titled "**Empowering Local Communities through Local Language Education and Skill-Based Training**," aimed at addressing the lack of educational materials in local dialects and providing skill-based training resources. The project will expand the **Hamro Ramailo Kathaharu** (HRK) app and develop new courses for **Seepalaya**, our skills-based personalized learning app. Specific goals for the two apps are listed below for reference:

Hamro Ramailo Kathaharu (HRK) App Goals:

katha.olenepal.org

- *App Enhancement:* Upgrade the HRK app to introduce a language-switching feature, enabling users to access content in multiple languages. Enhance the app to allow users to download content for offline usage, ensuring accessibility even in remote areas.
- *Content Translation and Adaptation:* Translate and adapt the existing catalog of animated stories and interactive digital activities into Newari, Maithili, Tibetan, and English, making the app a multilingual educational tool.
- *Local Story Integration:* Collaborate with the three partner language communities to source local indigenous stories, enriching the app's content and making these stories available in all supported languages.
- *Print-Ready Adaptations:* Adapt HRK stories into print-ready formats to facilitate physical book production, bridging digital and traditional reading experiences.

- *Community Training:* Conduct training workshops for parents and teachers to maximize the HRK app's effectiveness, coupled with workshops promoting holistic early childhood development strategies.

Seepalaya App Goals:

seepalaya.olenepal.org

- *App Upgrade:* Enhance Seepalaya's features to cater to youth audiences, incorporating personalization options and progress tracking to foster a tailored learning experience.
- *Community-Driven Content Development:* Engage with partner communities to assess learning needs and source ideas for vocational and skill-based courses, ensuring relevance and local significance.
- *Course Development:* Create and integrate 10 new vocational and informal training courses into Seepalaya, expanding its educational scope and utility.
- *Educational Integration Workshops:* Organize training sessions for educators to facilitate the integration of vocational skills training into the standard curriculum using Seepalaya, promoting a comprehensive educational approach.

About the Position

The **Software Developer** will be an integral to developing user-centric designs for the HRK and Seepalaya apps, employing a blend of functional components.. This role involves collaborating closely with UI/UX and multimedia designers, as well as content experts to develop educational tools, ensuring they are accessible, engaging, and effective for diverse learners. The position requires a dynamic individual who is adept at bringing design ideas to life, documenting and maintaining software functionality, with a keen willingness to learn and adapt within a multidisciplinary team.

Responsibilities:

- Execute full lifecycle software development, including verification plans and quality assurance procedures
- Write well designed, testable, efficient code
- Integrate software components into a fully functional software system
- Document and maintain software functionality
- Implementation of user interfaces with a focus on usability, performance, and accessibility.
- Collaborate closely with product managers, designers, and backend developers to translate requirements into technical specifications.
- Study and debug web applications in order to improve performance and to enforce standard coding practices
- Troubleshoot and debug complex issues to ensure smooth performance of web applications across different browsers and devices.

- Participate in code reviews, architectural discussions, and sprint planning meetings to ensure high code quality and adherence to coding standards.
- Integrate localization and translation mechanisms to provide a seamless experience for users in different language preferences.
- Coordinate with the System Admin or DevOps team for both online and offline version releases.

Education:

- Bachelor's degree in Computer Science and Information Technology or equivalent.

Requirements:

- Proven more than one year of relevant experience in JavaScript and React Technology.
- Experience in Javascript and JavaScript Framework(React, JQuery), Redux, Web markup language(HTML/HTML5, XML) and CSS.
- Experience in working with using Responsive Web Design frameworks like Bootstrap , Tailwind , Material UI.
- Experience with RESTful APIs and asynchronous request handling.
- Experience in working with cross-browser compatibility issues and ways to work around them.
- Experience with modern Front-End development tools (NPM, WebPack, Babel, etc)
- Experience in code versioning tools, such as Git, SVN.
- Good experience in code refactoring.
- First level of effort estimation for feature; interface with system architects to understand the impact of the system level features on the modules
- Able to understand the impact of front-end implications in system performance
- Developed software in SCRUM environment using Agile methodologies and involved in SDLC process.
- Excellent problem-solving skills and attention to detail.
- Strong communication and collaboration skills, with the ability to work effectively in a cross-functional team environment.

How to Apply:

Submit your cover letter, resume, and supporting documents via email to jobs@olenepal.org by **April 8, 2024**. Ensure your documents comprehensively reflect your qualifications and experience relevant to the position.