**Candidate Task:** Strategic Planning and Team, Architecture, and Tech Stack Evaluation

Objective: As a CTO candidate, you are expected to evaluate the current state of our technology team, architecture, and tech stack. Your task is to present a plan outlining the changes and improvements you would implement within the first 6 months if offered the position.

**Task Details**

1. **Team Evaluation and Restructuring**

Current Structure:

Review the current organization of the technology team. This includes roles, responsibilities, and the division of labour between different teams (e.g., Development, Operations, QA, Data Science, etc.).

Proposed Changes:

Describe how you would restructure or reorganize the team, if necessary. This might involve creating new roles, merging or splitting existing teams, or introducing new practices.

2. **Architecture Assessment and Improvements**

Current Architecture:

Review the current software architecture, including any key platforms, systems, and integrations.

Identify any architectural issues such as bottlenecks, scalability concerns, or technical debt that may be hindering the organization.

Proposed Changes:

Provide an overview of the changes you would make to the architecture. This could involve adopting new architectural patterns (e.g., microservices, serverless), refactoring existing systems, or enhancing data architecture.

**3. Tech Stack Review and Modernization**

Current Tech Stack:

Assess the current technology stack (c++, qt / qml) and identify any outdated technologies, tools, or practices that might be holding the team back.

Proposed Changes:

Recommend any changes to the tech stack that would align better with modern best practices, improve developer productivity, or enhance system performance.

4. **Roadmap and Implementation Plan**

Timeline:

Provide a timeline for implementing the proposed changes. Prioritize the changes and outline the key milestones you would aim to achieve within the first 6 months.

Risks and Mitigations:

Identify potential risks associated with your proposed changes, such as disruption to current operations, resistance from the team, or technical challenges.

**Deliverables**

Presentation: Prepare a slide deck (3-4 slides) summarizing your findings and proposals. The presentation should be concise but thorough, focusing on the most critical points.

Discussion: Be prepared to discuss your proposals in an interview setting, where you’ll have the opportunity to elaborate on your ideas and answer questions.