## Service Context Management for Exertion-oriented Programming
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### Thesis Description

**Problem Statement**
- No full life-cycle for context management in exertion-oriented programming
- The current Cataloger service does not sufficiently display context details (providers, interfaces, methods and context)
- There is no service UI context editor for interactive exertion-oriented programming.

**Conclusion**
- A life cycle context management is needed for exertion-oriented programming: context registration by providers, cataloging, updating, deleting and editing for exertions.

### Objective/Approach

**Objective**
- A framework for network-centric Life-Cycle Service-context Management (LCSM) for exertion-oriented programming.

**Approach**
- Literature review and analysis of life-cycle management and exertion-oriented programming
- Define requirements for LCSM
- Architect and design the LCSM framework to support exertion-oriented programming
- Conduct a feasibility study in the SORCER environment
- Implement and deploy the LCSM framework
- Verify and validate the LCSM framework

### Schedule

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### Requirements

**Benefits**
- Uniform service context registration by providers
- Uniform method context viewer and editor for service providers
- Friendly and intuitive Service UI for Cataloger service contexts per provider/interface method
- Friendly and intuitive Service UI for task service context
- Friendly and intuitive Service UI for job service context

**Requirements**