Domain Engineering for Weather Information Services

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- Processed and addressed reviewers’ comments
- Submitted camera-ready paper 19th March
- Conference to be help in Gothenburg, Sweden May 27th - June 3rd 2018

- Formatted according to Springer book guidelines
- Submitted 1st April
- Await review process until May 2018
Technical testing of the Web and USSD applications
Feedback used for refining
USSD menu translated to Luganda, technical testing done 23rd March
Compiled summary report of findings from tests
Paper 'Domain Exploration of Seasonal Weather Information for Farmers in Uganda'

- Addressing reviewer and advisor comments
- Domain engineering to elicit requirements and structure a domain model
- Targeting journal
- Research design techniques - modeling (model driven software development)
  - Meta models and DSLs, role of meta models in defining syntax of a modeling language
- Giving / Receiving constructive criticism of research papers
Structure of Thesis

Thesis structure:

Introduction:
Background from baseline survey paper and technical report

Chapter 1:
Problem and motivation for solution

Chapter 2:
State-of-the-art versus state-of-the-practise of domain engineering (literature review)

Body:
Applying the domain engineering approach – implementation

Chapter 3:
Method description – step-by-step description of processes of domain analysis, design, implementation
  • Data gathering process, limitations

Chapter 4:
Resulting design applied to weather information dissemination domain – Magnolia style – resulting DSL
  • Domain model
  • Vocabulary, types, operations

Chapter 5:
Findings, deductions, inferences

Conclusion:

Chapter 6:
Next Steps

- Come up with concrete thesis structure - fill in sections
- Complete work on 'Domain Exploration of Seasonal Weather Information Dissemination'
  - Table of review - address each reviewer’s comments
  - Find appropriate journal to send to
- Extend 'The Need for an Integrated Effective Weather Dissemination System for Uganda' as journal paper
  - With comments from co-authors
- Continue work on 'Domain Engineering as a technique for discovering Microservice Functionality'
End user testing with farmer group
Refine system using feedback
Plan for a prototype validation workshop with all stakeholders
Thank you! Feedback?