Modeling User Requirements using Use-Cases: The requirements modeling process of Process Mentor. The cornerstone of developing effective software that meets the business needs of your organization is the accurate identification of user requirements. Unfortunately, software development has a history of ignoring, assuming or incorrectly defining these requirements.

Requirements modeling is more than an intuitive way of “figuring out” the functional requirements of a system. It is the application of a process of proven techniques to produce useful and verifiable models. This results in a reduction of software faults, the avoidance of time wasted on the production of unimplemented and unused features, and the early detection of defects.

This seminar will provide you with an exposition of the most advanced techniques and processes for gathering, modeling and documenting your user requirements. It will provide you with a rigorous process using the techniques of Use-case analysis and business domain object modeling. The seminar will address not only how to develop requirements models, but also how to plan, track and manage the requirements gathering process. The requirements modeling process is based on a component of Process Mentor, a world class 00 development process used by more than 40 organizations within Australasia.

This seminar will involve a number of hands-on sessions to enable participants to apply what they have learned in their organization.

Outline:

- The Requirements Modeling Process
  - What is requirements modeling
  - Benefits of a requirement model
  - Requirements modeling with 00 techniques

- Business Scenario Analysis — Modeling Functional Requirements
  - Scenario (Use Case) Analysis
  - Identifying actors and scenarios
  - Refining and restructuring a scenario model
  - Using scenarios for BPR
• Business Domain Modeling — Modeling the Business with Objects
  Domain Object Modeling concepts
  Identifying business domain objects and relationships
  Constructing a business domain object model
  Verifying the business domain model

• Operational Analysis — Modeling the Non-Functional Aspects of a system
  Identifying and documenting the non-function requirements
  Reviewing, Sign-off and Iteration
  Reviewing and gaining sign off for the requirements model
  Tracking iterations
  From requirements to design

Tim Hastings is a senior consultant at Object Oriented Pty Ltd., specializing in software process and software metrics. Tim has extensive industry experience as a designer, software manager, process improvement manager and consultant. Tim has a Master of Computing degree from Monash University where he is currently undertaking a Ph.D. in software measurement. Tim is a member of the Australian Computer Society and an active participant in the Australian Software Metrics Association. His research interests include software metrics, formal specification and software development methodologies.