TECHNISCHE UNIVERSITÄT DRESDEN

Department of Computer Science Institute for System Architecture, Chair for Computer Networks

Application Development for Mobile and Ubiquitous Computing

JIRA Mobile
First Presentation

GroupNo. 5
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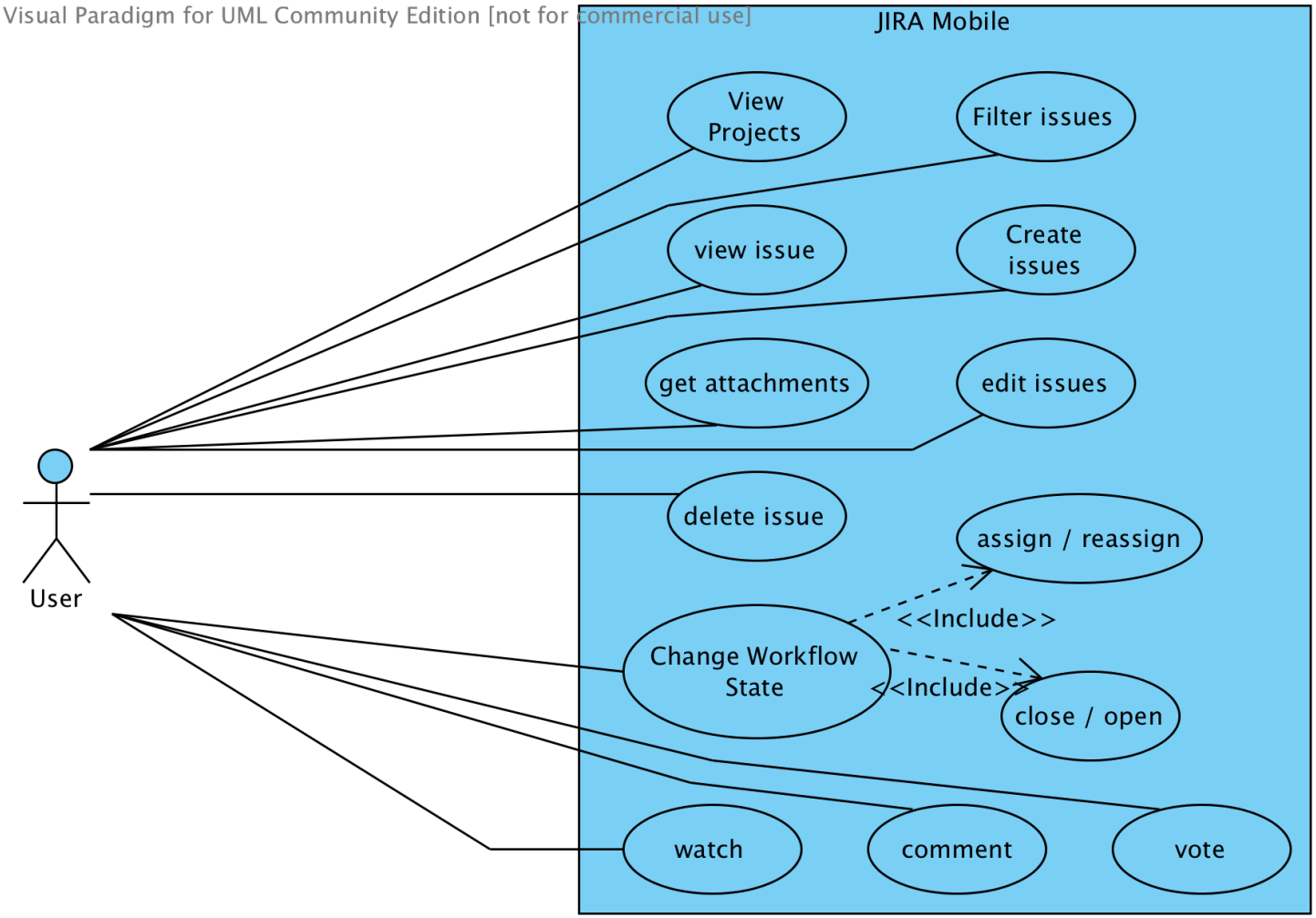
Application Scenario

- JIRA
  - „Track anything – issues, bugs, tasks, deadlines, code, hours – to stay on top of every team's activity.“
  - Commercial system
- Provide mobile access for iPhone / iPad
  - Workflow-Management

Use Case


Visual Paradigm for UML Community Edition [not for commercial use]
JIRA Mobile
View Projects
Filter issues
view issue
Create issues
get attachments
edit issues
delete issue
assign / reassign
<<Include>>
Change Workflow State
<<Include>>
close / open
watch
comment
vote
User

Technologies

- Server
  - REST endpoint provided by JIRA
  - JSON used for representation
- Client
  - iPad, iPhone
  - Contains some business logic
  - Using SBJson XOR JSONKit for object translation
  - ASIHTTPRequest to map Cocoa network functionality

Challenges

- Feature Support
- Adaption of User Interface
  - Varying functionality depending on the device running
- Network traffic & security
  - Big JSON-responses easily possible → Compression
  - SSL connection and Basic Authentication
- Agile Workflow Management
- Comply with Apple’s UI and AppStore Guidelines

Work plan

- Separation of Concerns
  - Backend (REST, JSON, ...)
  - Frontend (iPhone / iPad controlling)
- 2nd meeting: Prototype with full reading and viewing capabilities
- Turn of the year: full CRUD support
- Final Meeting: beta testing, bug fixing, refinement