Dynamic Network Device Mapping System (DNDMS)

Requirements Specification
By
SKYNET Software
Welcome

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Agenda

• Introductions
• Data Flow Diagrams
• Use-Case Narrative
• Functional Requirements Inventory
• Prototypes
• Timeline
Team SKYNET

- Kevin Fealey ............... Team Leader
- Heimdall Imbert ............. Systems Administrator
- Stephanie Maloney ........... Documentarian
- Trevor P. March ............. Webmaster
- Andrew Warner .............. Systems Analyst
Problem Definition

• Current methods are inefficient
• Information should be obtained digitally
• Data accessible from anywhere
• Web application is required
• Digital map labeling all network devices
• Should display wired and wireless components
Data Flow Diagrams (DFDs)

Legend

- Process
- File/Store
- Source/Sink
Context Diagram
Level 1 Diagram

- **View Layouts**
  - **1.1** Requested-Device-Information
  - **1.2** Requested-Device-Information

- **Access Control Panel**
  - **1.1** Login-Information
  - **1.2** User-Request

- **User and Network Device Information Database**
  - **0** Process
  - **File/Store**
  - **Source/Sink**

Legend:
- Process
- File/Store
- Source/Sink
Level 2 Diagram

Administrator

1.2.1
Edit Device Information

1.2.2
Edit User Accounts

User and Network Device Information Database

Legend

- Process
- File/Store
- Source/Sink

Edited-Device-Information

Edited-User-Information

Updated-Device-Information

Updated-User-Information
Use Case: Administrator

- all functions available to them
- view floor maps of Roger Bacon and Morrell
- can zoom map to room level
- make changes to current device inventory
- search by MAC, serial number, IP
- add and remove users
Use Case: Department Head

- view floor maps of their department
- can zoom map to room level

Use Case: Faculty/Staff

- view floor maps of their office
- view location of available printers
- can zoom map to office level
Functional Requirements Inventory: Administrator

- Login Screen
- Welcome Screen
- Control Panel
- User Control Panel
- User Permissions Control Panel
Functional Requirements Inventory: Administrator (cont.)

- Room Notes
- Floor Plan
- Room Layout
- Search Screen
DNDMS: Login Screen (all users)
DNDMS: Admin Main Menu

Dynamic Network Device Management System

Instruction for the Dynamic Network Device Management System
DNDMS: Administrator Control Panel

Instruction for the Dynamic Network Device Management System's Administrator Control Panel Index page.
DNDMS: Administrator Control Panel (2)
DNDMS: Room Level View (all users)
Waterfall Model
(Linear Sequential Model)

- Software Plan
- Requirements Specification
- Preliminary Design
- Detailed Design
- Acceptance Test
Supporting Documentation

• Requirements Specification - Presentation: October 24, 2007

• Preliminary Design - Presentation: November 28, 2007

• Detailed Design - Spring 2008

• Acceptance Test - Spring 2008