Meteocal Project Presentation

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Project Phases

Requirements
Design
Implementation
Testing
Acceptance Testing
Project Report

What should the system be?

The system should be an event planner with weather functionalities

Who will use the system?

Different users with varying backgrounds and technological expertise

What requirements should be satisfied?

Functional Requirements

- Registration
 - Login
- Event creation
- Event update and deletion

- Inviting users
- Managing invitations
 - Weather alerts

Non functional requirements

- Ease of use
 - Stability
- Maintainability
 - Portability
 - Security

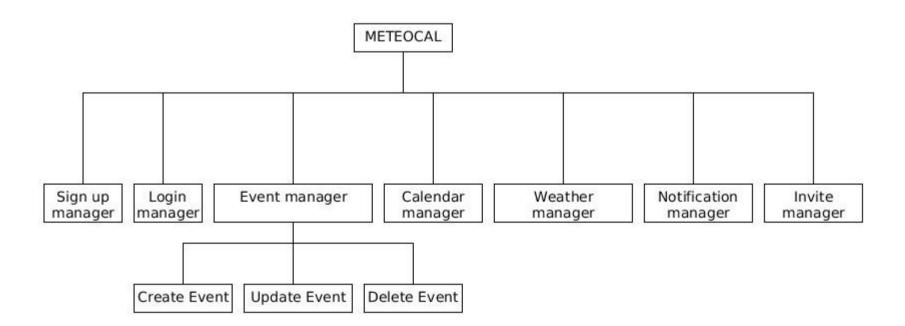
Scenarios and Use cases

Which architecture should be used?

JEE has a 4-Tiered architecture

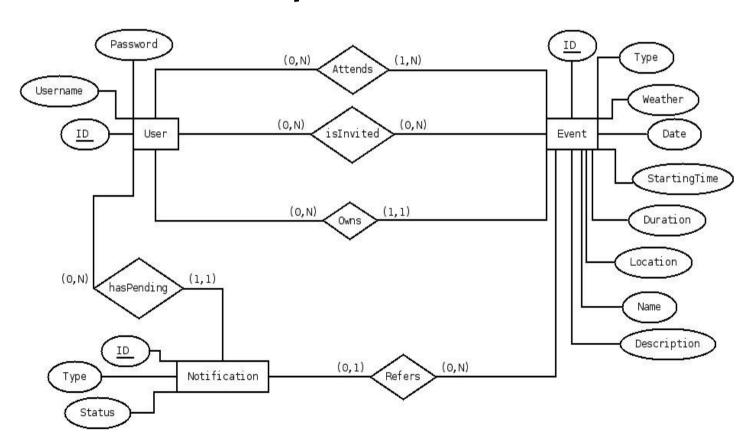
Client - Web - Business - Data

Subsystems

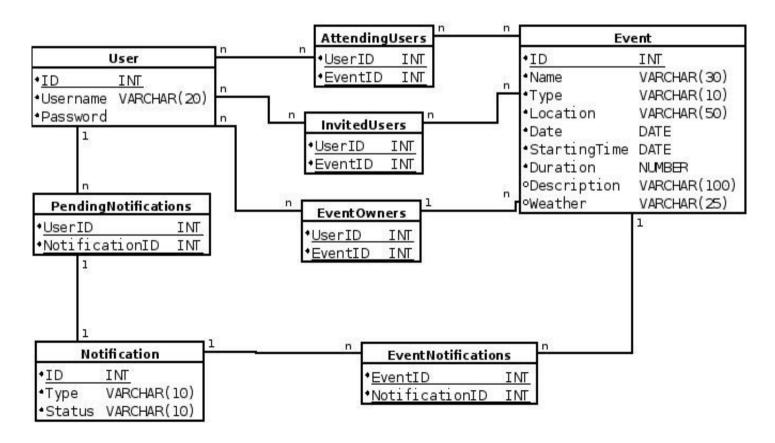


Persistent data management

Conceptual model

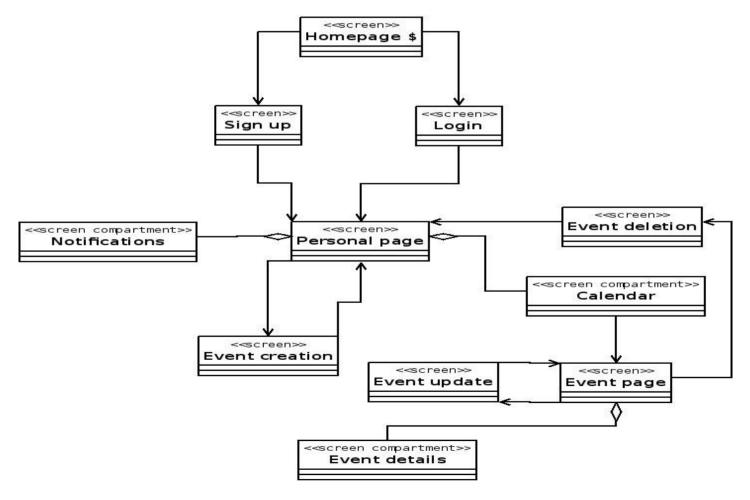


Database diagram



User Experience

UX Overview



3-Tiers inspired implementation Influenced also by BCE diagrams

Presentation

JSF + JSF managed beans

Control

EJBs

Data

Entities

Some additional helpers for weather and time

DEMO

Requirements changes

- Modifiable past events
- Case insensitive user names
- Weather alerts sent immediately

Design changes

- Logical data model
 - •User Experience

Testing

Automatic testing Manual testing and verification

Testing

Tested major aspects of the system considering inputs, outputs, consequences and possible exceptions

Acceptance Testing

Tests were mostly based on the released testing document of the assigned project

Acceptance Testing

The system performed well and was functional

Acceptance Testing

Some bad inputs were not accounted for and could cause exceptions

Project Report

Actual Data
Function Points Analysis
COCOMO II Analysis

Project Data

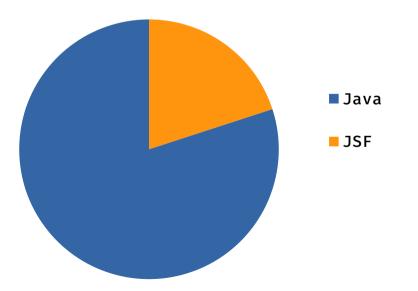
Size

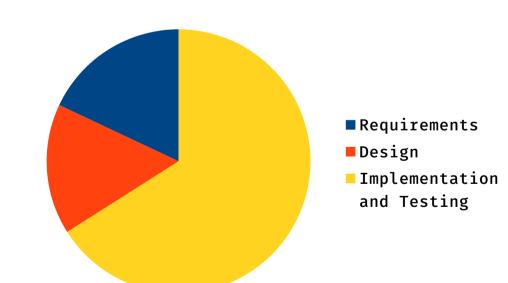
Duration

113 hours

2 months

1582 SLOC





Function Points Analysis

Category	FPs
ILF	27
EIF	5
External Input	34
External Output	0
External Inquiry	10
TOTAL	76 FPs

Function Points Analysis

Most of the FPs are due to the External Input and the Internal Logic Files

Function Points Analysis

The expected LOC size is 1596, close to the actual SLOC size of 1582

COCOMO II Analysis

Effort ≈ 1.64 person-months
Duration ≈ 4.28 months
Members ≈ 0.38 persons

With real duration Members = 0.82 persons