

SOFE 3650U: Software Design & Architecture

Project Deliverable 2 - Project Progress Report

Use Cases and Use Case Models

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Use Case Model:

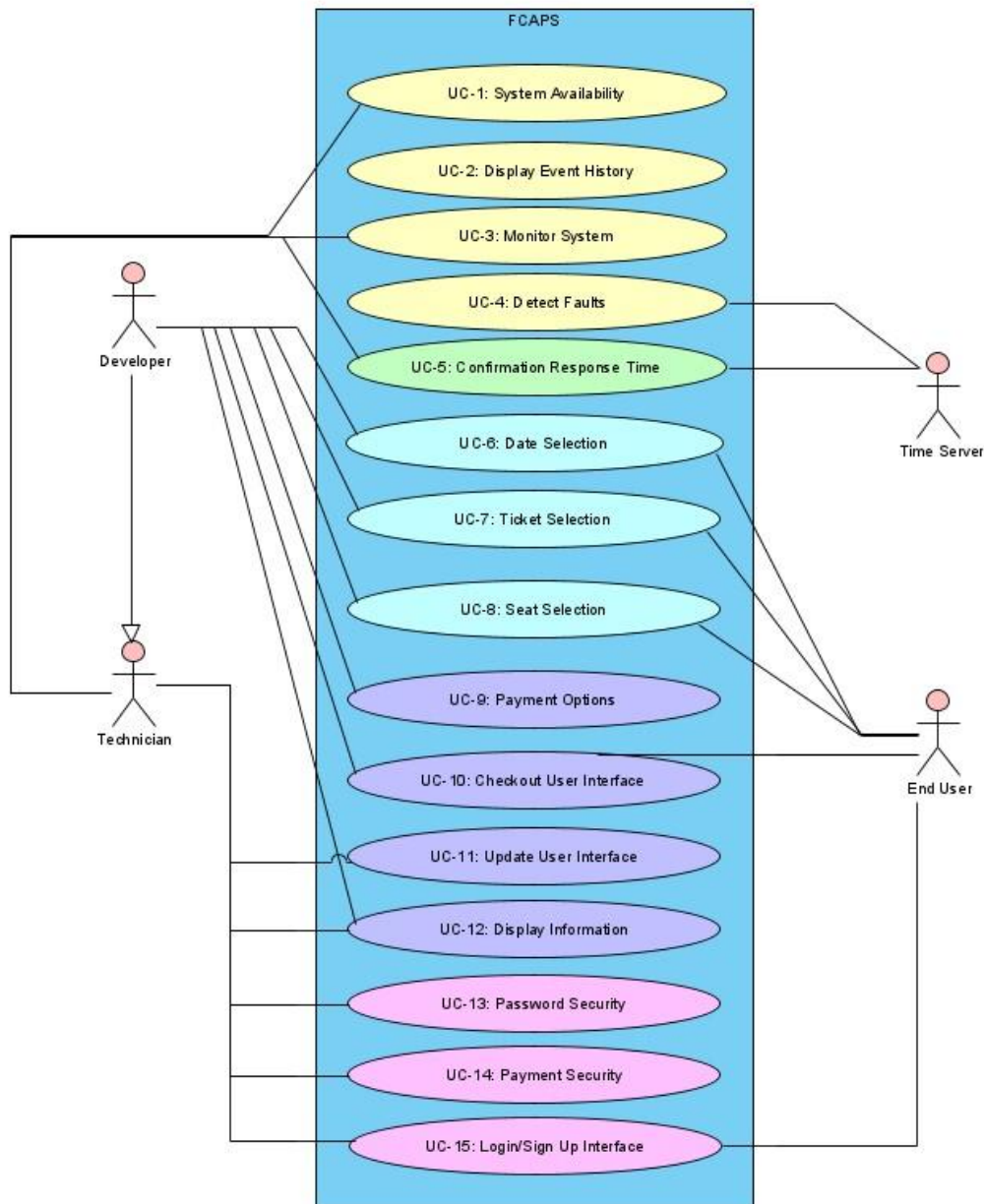
F- Fault management - System Availability, Display Event History, Monitor System, Detect Faults

C- Configuration management - Confirmation Response Time, Transaction Response Time

A- Accounting - Date Selection, Ticket Selection, Seat Selection

P- Performance management - Payment Options, Checkout User Interface, Update User Interface, Display Information

S- Security Management - Password Security, Payment Security, Login/Signup Interface



Use Cases:

Use Case Identity	Description
UC-1: System Availability	The technician makes sure the system is available at all times and that the time servers are not running into traps.
UC-2: Display Event History	Stored events associated with time servers are displayed.
UC-3: Monitor System	The developer monitors the time servers of the network and system representation is updated continuously as faults are detected.
UC-4: Detect Faults	The management system contacts the time servers to see if the server responds.
UC-5: Confirmation Response Time	The time servers must be able to send a confirmation email to the user after booking in <1 minute.
UC-6: Date Selection	Allow the user to select the date that they want to view movies.
UC-7: Ticket Selection	Allow the user to select the type of ticket they want (Regular, 3D, D-Box, IMAX, Atmos).
UC-8: Seat Selection	Allows the user to reserve their preferred seat location in the movie theatre.
UC-9: Payment Options	The developer must be able to create a system that can manage several payments being made at checkout from various users at the same time.
UC-10: Checkout User Interface	The developer must be able to create a system that can manage the performance of the interface for the user checkout to make sure all details are shown correctly at peak load.
UC-11: Update User Interface	The developer must be able to manage the performance of updating the user interface to display any new updates on movies or the website at peak load.
UC-12: Display Information	The technician displays information about the available movies at selected dates by

	collecting all performance data from the calls made to the API/database.
UC-13: Password Security	The technician manages the users passwords and makes sure to encrypt them.
UC-14: Payment Security	The technician manages the users payment methods and security codes linked to it, making sure the information is encrypted.
UC-15: Login/Sign Up Interface	The user logs into the system through a log in or sign up screen. The technician allows the user to log in or sign up if the encrypted password matches with the one in the database.