

State Machine Diagram Leave Management System (LMS)

Overview

- What are State Machine Diagrams?
 - Behavioral State Machine
 - Vertex
 - Behavioral State
 - Pseudostate
 - Final State
 - Behavioral Transition
 - Protocol State Machine
 - State
 - Transition
- State Machine Diagram for LMS

State Machine Diagram for LMS

We will now derive the State Machine Diagram for LMS. The steps are:

- Identify the states
- Identify the transitions (including pre-condition, post-condition and triggers) which changes one state into the other state
- Derive the final State Machine Diagram

State Machine Diagram for LMS

States of LMS

We identify the states of the Leave Life-cycle

- New
- Requested
- Approved
- Regretted
- Aailed
- Canceled
- Archived

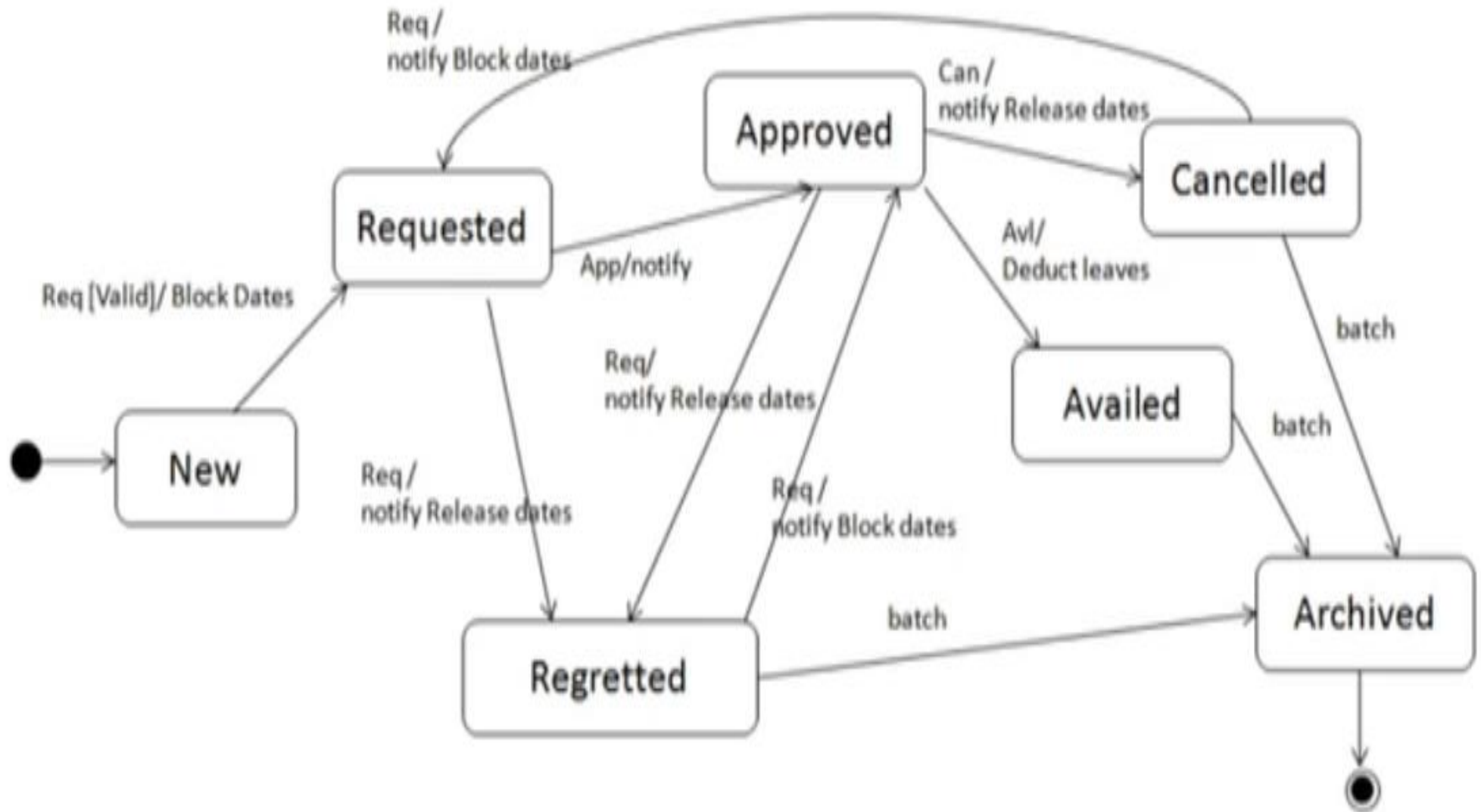
State Machine Diagram for LMS

Transitions of LMS

We identify the states of the Leave Life-cycle

- New to Requested: Req[valid] / Block Dates
- Requested to Approved: App / Notify
- Requested to Regretted: Req / Notify Release Dates
- Approved to Canceled: Can / Notify Release Dates
- Approved to Aailed: Avl/ Deduct Leave
- Approved to Regretted: Req / Notify Release Dates
- Regretted to Archived: batch
- Regretted to Approved: Req / Notify Block Dates
- Aailed to Archived: batch
- Canceled to Archived: batch
- Canceled to Requested: Req / Notify Block Dates

State Machine Diagram for LMS



Reference

Source: NPTEL - Object-Oriented Analysis and Design, IIT Kharagpur Prof. Partha Pratim Das
Prof. Samiran Chattopadhyay Prof. Kausik Datta

<https://nptel.ac.in/courses/106105153>