

CSC3350

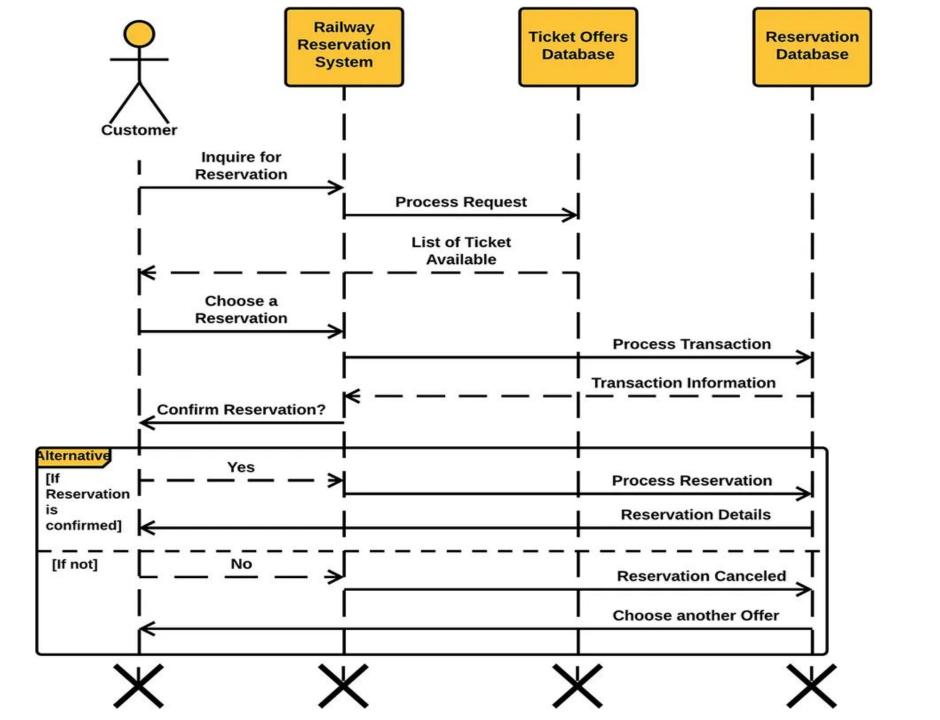
Dr. William Greg Johnson
Department of Computer Science
Georgia State University



Scenario for Ticketing Railway Reservation System

Requirements (Functional, Nonfunctional) are used to build a sequence diagram.

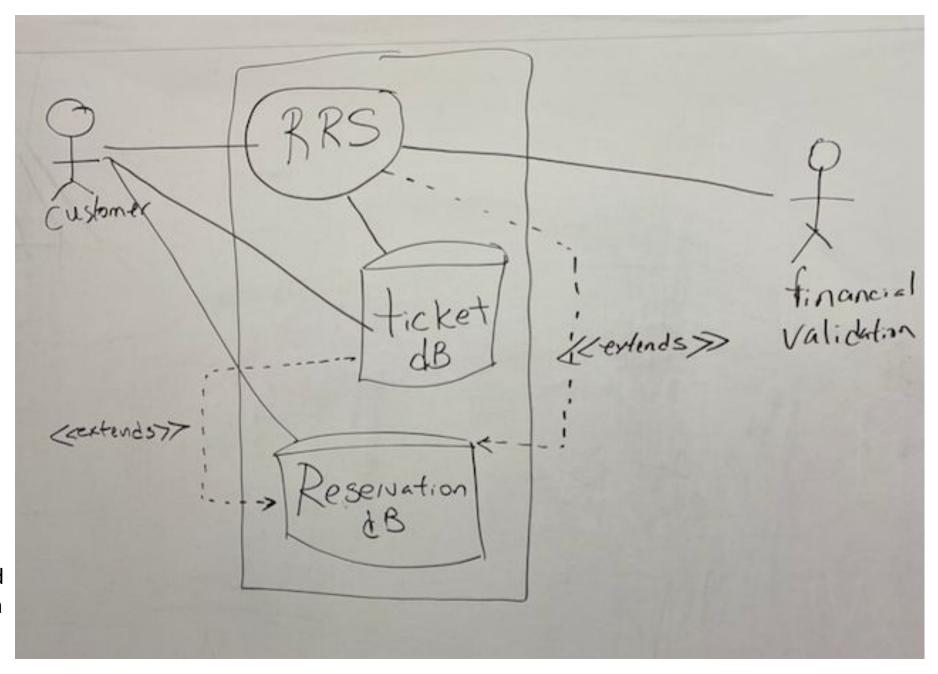
- User connects to Railway Reservation System (RRS) with inquiry for tickets
- 2. RRS connects to *ticket database* with inquiry
- 3. Returns list of open reservations
- 4. User chooses a reservation
- 5. Send choice to reservation database
- 6. Reservation database sends back RRS
- 7. User confirms choice or declines choice



Use case?

The 'financial validation' shown as an external component/system. It is optional but shows an outside interaction/connection to reserving a ticket.

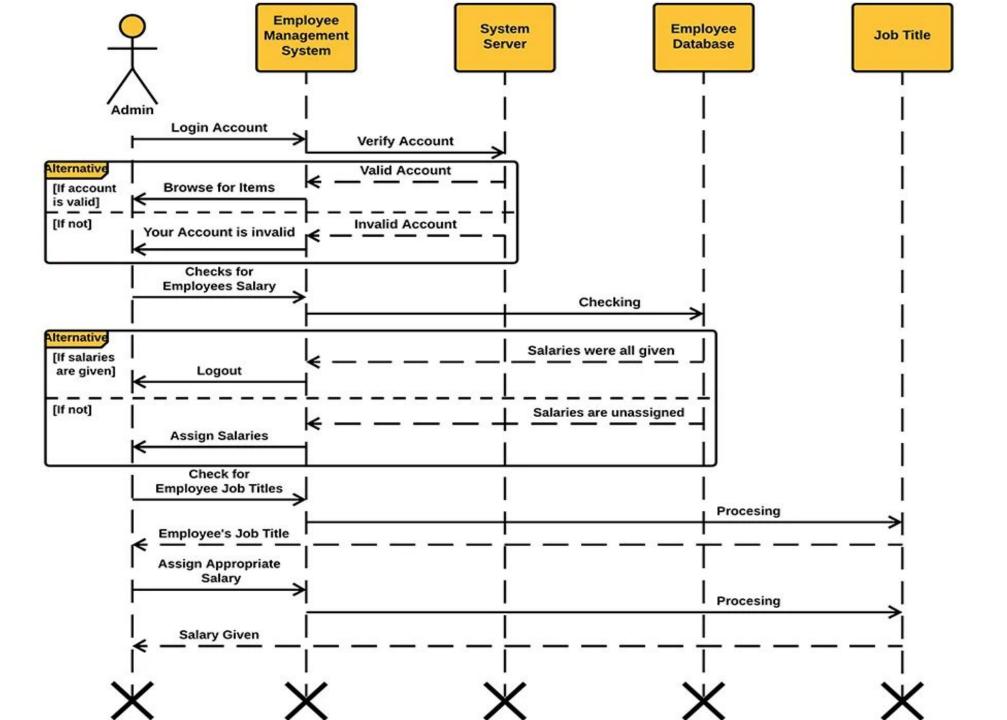
The '<<extends>>' is a way to indicate additional behavior that is too detailed or complex for this use case diagram. (Usually indicates a library, or web service as part of the connection between components —this would be an additional use case diagram to show its composition.)



Scenario for Setting Salaries for Employees

Employee management system (EMS) to view/update salaries and associated job titles
The Admin uses: EMS, Account Server (AS), employee salary database (ESD), job title data (JT)

- 1. Admin sends login request to EMS, and EMS sends verify request to AS
- 2. AS returns valid or invalid login to EMS
- 3. EMS sends logout (invalid) or browse for employees (valid)
- 4. Admin (valid) sends request to EMS to check if all employees assigned a salary
- 5. EMS send request to ESD
- 6. ESD returns 'all employees have salary' or list of 'employees are without a salary'
- 7. EMS returns logout or assign salaries to Admin
- 8. Admin sends check for titles (assign salaries) to EMS
- 9. EMS sends 'get list' of titles to JT
- 10. JT returns titles to Admin
- 11. Admin sends message to assign salary appropriate for title to EMS
- 12. EMS sends 'process request' to JT
- 13. JT returns to Admin: completed



Use case?

