

IEEE Std 830 on SRS

- Introduction
 - purpose, scope, definitions/acronyms /abbreviations, references, overview of doc.
- Overall description
 - product perspective, functions, user characteristics, constraints, assumptions and dependencies
- Specific requirements
 - external interface, functional requirements, performance, design constraints, software system attributes

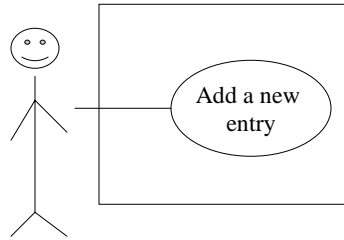
Use case modeling

- A requirement elicitation technique using scenario-based analysis
- A scenario is a story of how a specific task is executed, e.g. *borrow a book*.
- Use cases can be documented as a narrative text (adding pre- and post-conditions) or using a state transition diagram

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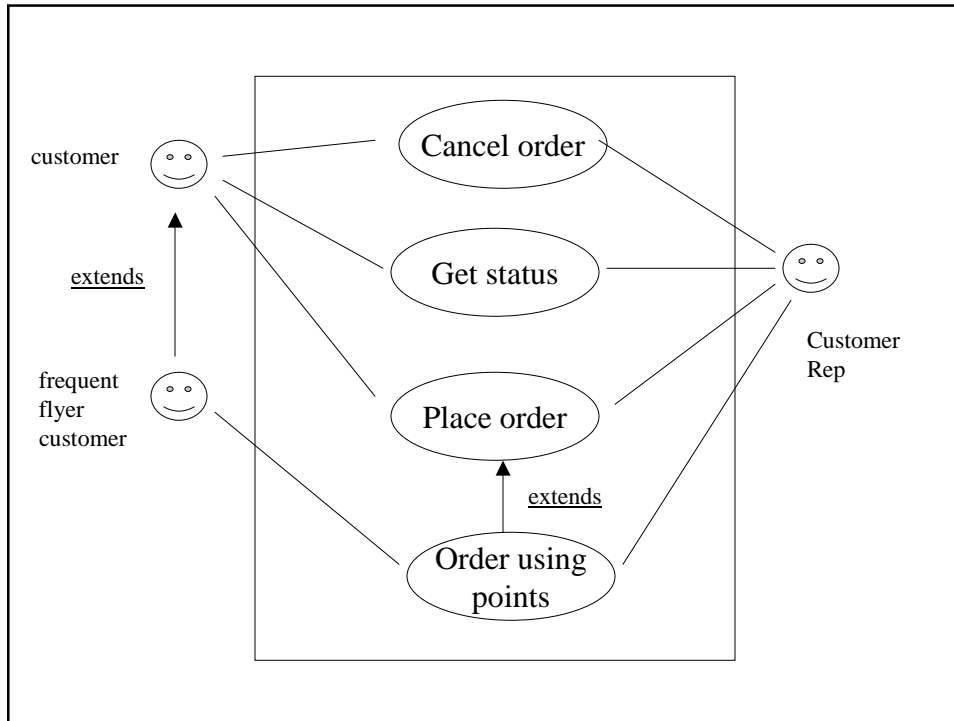
- Use case diagrams show three aspects of the system:

- actors: representing the roles that people or other systems play
- use cases: describing the interaction between the system and the user
- system boundaries



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- Use cases can participate in two other relationships
 - <<extends>> when you wish to show that a use case provides additional functionality that may be required in another use case.
 - <<uses>> applies when there is a sequence of behavior that is used frequently in a number of use cases.



Alternatives

- ERM
 - for data intensive applications
 - very close to OO
- FSM/ StateCharts
 - can be used to document use cases
- Functional decomposition
 - DFD, SADT
 - Becoming historical