

CRC Cards

- Used to document the
 - Responsibilities
 - Collaborations of a class

Responsibilities and Collaborations

- Responsibilities of a class fall into two categories:
 - Knowing Responsibilities
 - Doing Responsibilities

Responsibilities and Collaborations

- Knowing Responsibilities
 - Things an instance must know
 - Normally it knows values of its attributes and its relationships
- Doing Responsibilities
 - Things an instance must be able to do
 - Execute its **operations**, call other operations

Responsibilities and Collaborations

- Collaboration
 - Use cases involve a more than one class
- These classes form a collaboration
- Objects working together to service a request
- Allows you to focus on Clients, Servers, and Contracts

Clients, Servers, Contracts

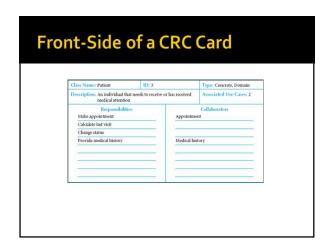
- Client
 - Instance of a class
 - Sends a request to instance another class
- Server
 - Instance of a class the receives the request
- Contract
 - Formalizes the interaction between the client and server

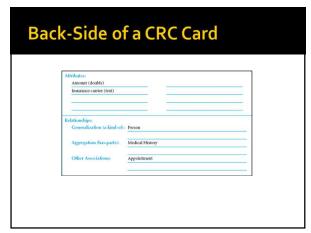
Clients, Servers, Contracts

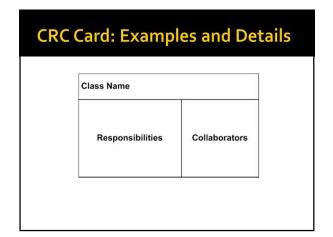
- Example
 - Patient makes appointment with Doctor
 - Client: Patient object
 - Server: Doctor object
 - Contract: Both agree to be at a specific place at a specific time

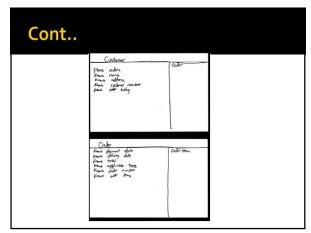
Elements of a CRC Card

- Class Name Noun (not proper)
- ID To track design to requirements
- Description Brief text definition
- Responsibilities Doing responsibilities (Operations)
- Attributes Knowing responsibilities
- Relationships
 - Generalization
 - Aggregation
 - Other Associations
- Collaborators









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