CS1 – Task 7 (Domain Model and Sequence Diagram)

# CRC-Cards

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| **Class name: Person** | |
| Purpose: Models a physical person | |
| Responsibilities:   * contains first and last name of the person * contains the address of the person | Collaborators:   * uses Address class for modelling an address |

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| **Class name: Address** | |
| Purpose: Models a physical address | |
| Responsibilities:   * contains elements of an address such as street, postal code and city | Collaborators:   * is part of a Person |

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| **Class name: Location** | |
| Purpose: More specific address, assigned a name describing the location, e.g. ‘University Hospital’ | |
| Responsibilities:   * contains a name describing the address * contains an address | Collaborators:   * uses Address class for modelling an address |

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| **Class name: Patient** | |
| Purpose: Inherits from the person class and is used to model a patient | |
| Responsibilities:   * contains a list of treatments the patient is part of * can get the date of the next appointment | Collaborators:   * uses Treatment class for modelling a treatment * Treatment is responsible for appointments, thus must be able to return the next one |

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| **Class name: Doctor** | |
| Purpose: Inherits from the person class and is used to model a doctor | |
| Responsibilities:   * has a default location where the doctor is available usually | Collaborators:   * is part of an appointment |

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| **Class name: Treatment** | |
| Purpose: models a treatment | |
| Responsibilities:   * Contains a name and a description describing the treatment * Contains a list of prescribed medicine for the current treatment * Contains start- and end-date of a treatment * Contains a list of all associated Appointments of a treatment | Collaborators:   * Uses Appointment class for modelling a list of appointments * Uses Prescription class for modelling prescribed medicine of patient |

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| **Class name: Prescription** | |
| Purpose: models a treatment | |
| Responsibilities:   * has a list of dates at which the medicament must be taken in * has a medicament associated to it * has a dose | Collaborators:   * uses medicine class * the dose unit of the medicine together with the does specify the amount to be taken in |

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| **Class name: Medicine** | |
| Purpose: models a medicament and specific information about it | |
| Responsibilities:   * has a name * has a manufacturer * has a list of possible side effects * has a dose unit which depends on whether it is a liquid or pills | Collaborators:   * the dose unit is used with the amount of a prescription * used by a prescription |

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| **Class name: Appointment** | |
| Purpose: models an appointment which is part of a treatment | |
| Responsibilities:   * has a location at which it takes place * has a start and end date | Collaborators:   * used by treatments which may have appointments |

# Klassendiagramm

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# Sequenzdiagramm 1:

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# Sequenzdiagramm 2:

