

## Exercise 3

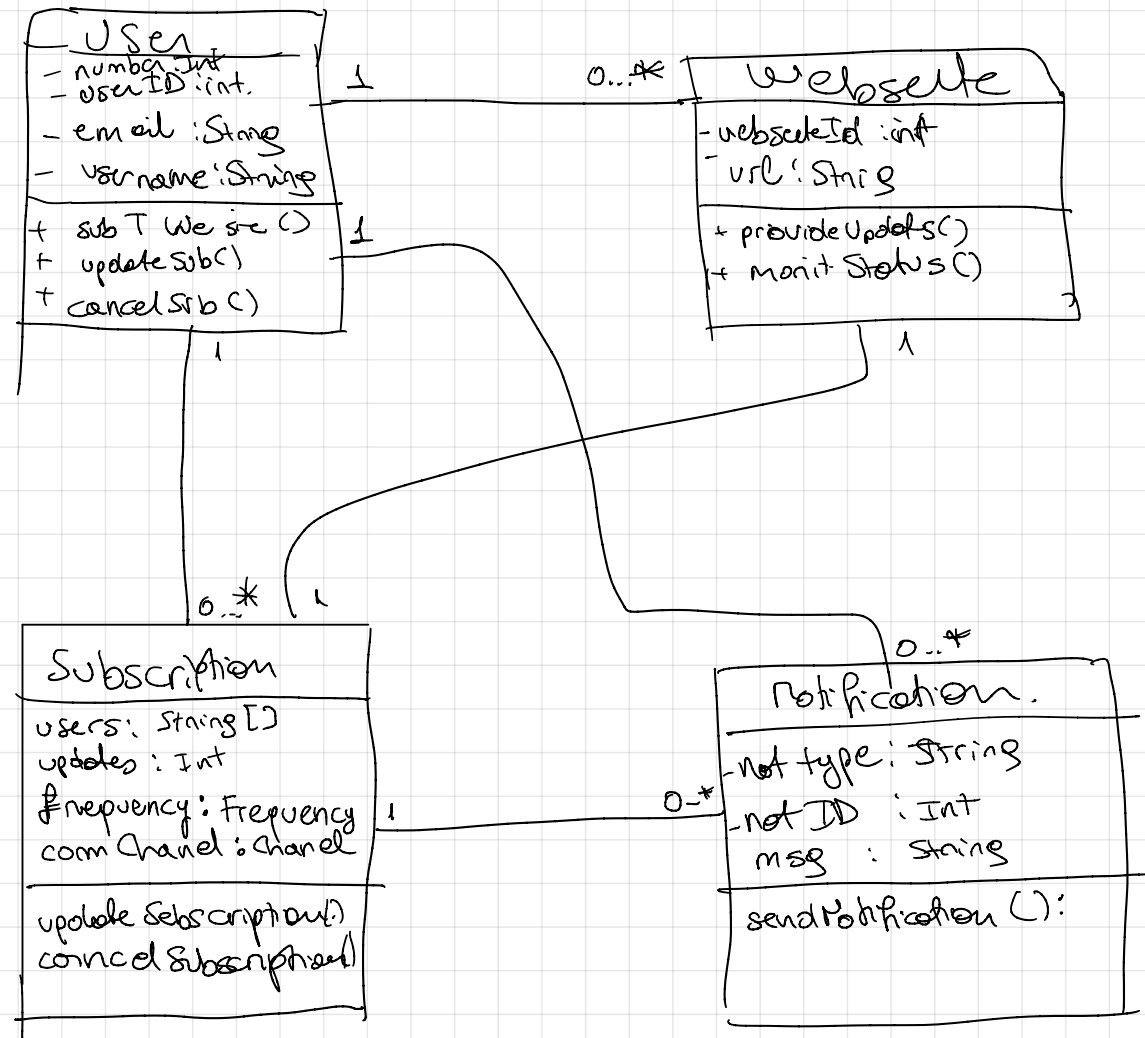
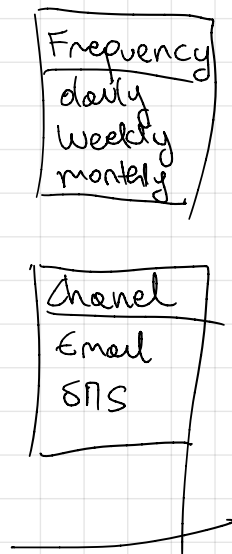
Please prepare a written documentation for each task *before* the exercise date. Repeated failure to prepare the worksheet may result in not being admitted to the exam. You may also be asked to present your solution in class.

1. Given the following textual description, draw a structural UML design model for the software website monitor.

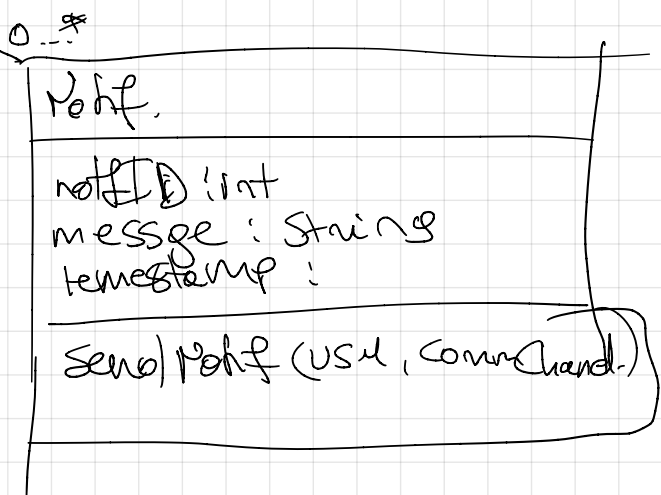
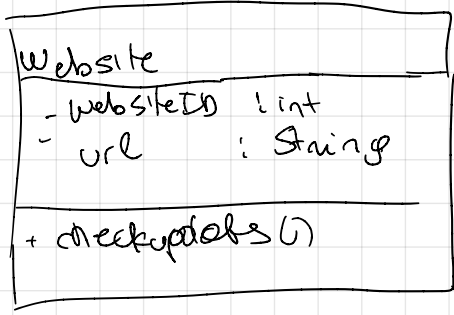
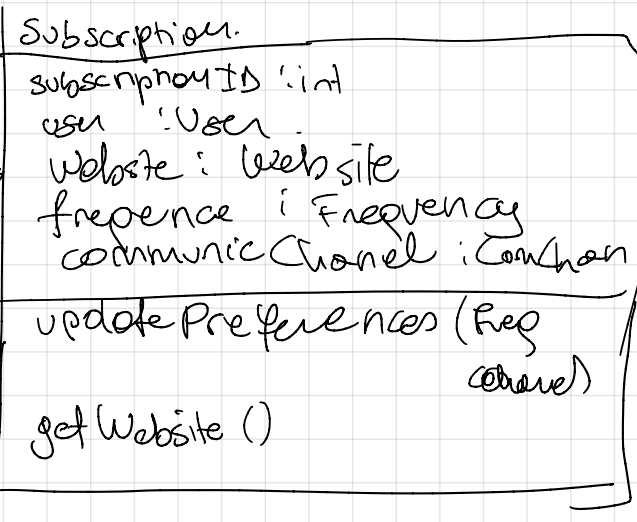
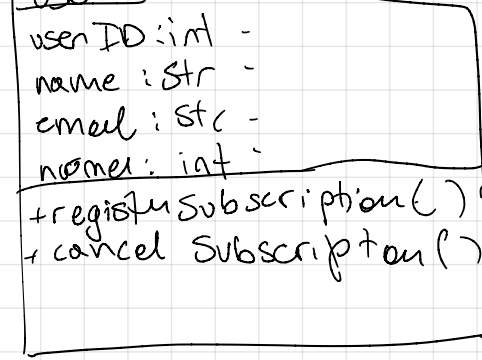
*The system allows users to register for updates on a specific website. Upon registration, users provide the URL of the website they wish to monitor and specify their notification preferences, such as frequency and preferred communication channel. The system then periodically checks the subscribed websites for updates. When an update is detected, the system generates a notification and delivers it to the user via their chosen communication channel. Users can also manage their website subscriptions, allowing them to modify or cancel existing subscriptions as needed.*

2. Read *Aldrich - GRASP.pdf* (see CampUAS). Describe how to find the responsible class for a method. Describe how to find the responsible class for the creation of an object.
3. Create CRC cards for the classes designed in 1. Please reiterate your model and use the Controller and Expert principle. Did you change the responsibility for any of your methods?

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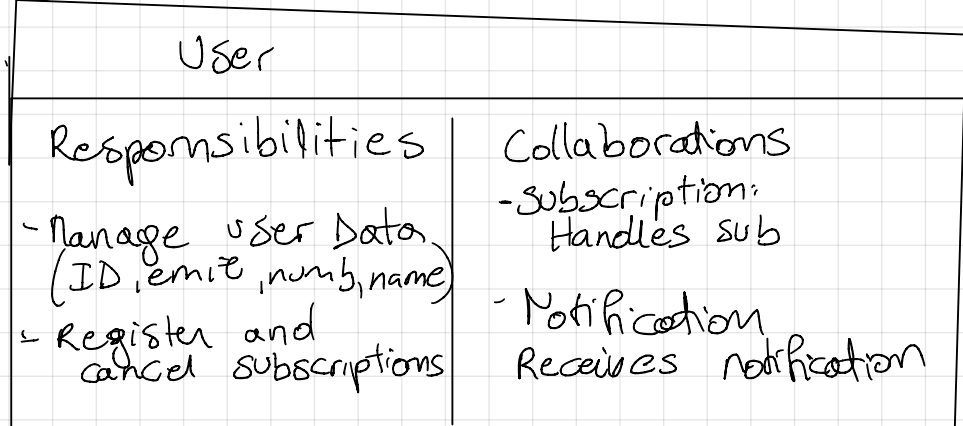


## Auf 1



## Auf 2

### CRC Karten



## Website

### Respon

- Represents a website
- Check for updates

### Collabs

- Subscription connected through subscriptions

## Subscriptions

### Resp

- Links users and websites
- Stores notif settings (frequency, channel)
- Updating preferences

### Collabs

- User : Owner of Subscription
- Website : Monitored website

## Notification

### Resp

- Represents a notification message
- Send notif to user

### Collabs

- Subscrip : Triggered based on settings
- User : Receives notif