

Development for Mobile, Wearable and Smart Devices

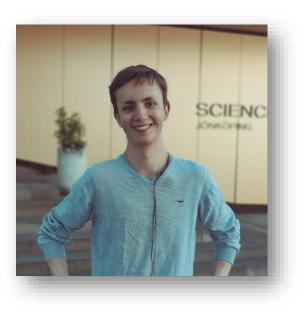


Development for Mobile, Wearable and Smart Devices

- ✓ Course name: Development for Mobile, Wearable and Smart Devices
- ✓ Ladok code: TDWR29
- ✓ **Credits**: 7.5
- ✓ Course coordinator: Linus Rudbeck
- ✓ **Examiner**: Vladimir Tasarov



Who am I?



Linus Rudbeck

- ✓ Running Red Capes
- ✓ CTO
- ✓ Started programming at 15
- ✓ Studied Software development & IT-security at a High School and College level





Examiner



Vladimir Tarasov



Course introduction

Course administered through Canvas

Course materials available on <u>https://ju.redcapes.se/mobile-wearable-smart-devices/</u>



Course Prerequisities

Informatics, Computer Science, Computer Engineering, Interaction Design 90 Credits

> Development for Mobile, Wearable and Smart Devices 6 Credits

This course will rely on basic knowledge about

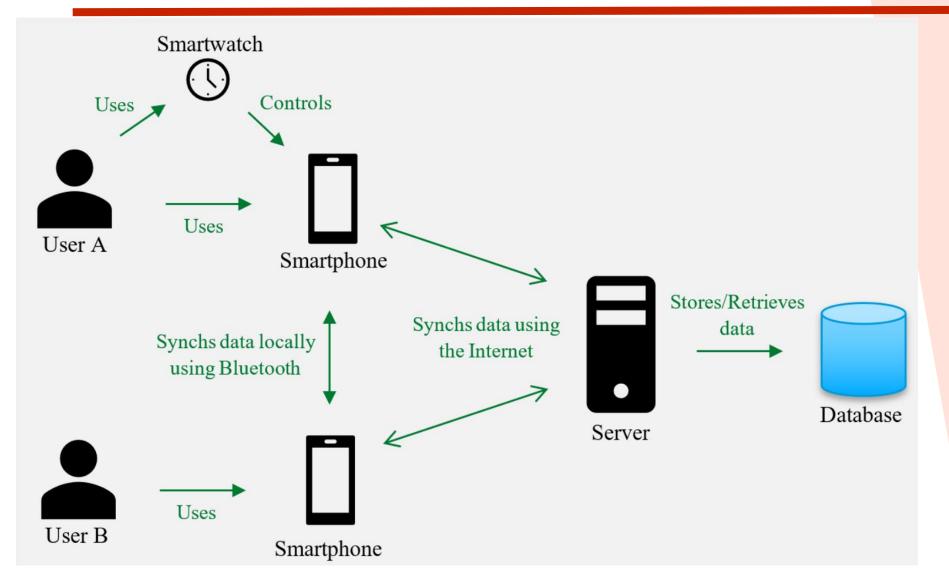
- HTML
- ✓ Javascript
- ✓ CSS

There are introductory courses on these topics here:

HTML CSS Frameworks Javascript



IOT & Application environment





Intended Learning Outcomes

- Show familiarity with the Internet of Things the technology of connected devices and user experience design for it.
- Display knowledge of principles of development of cross-platform applications for mobile devices.
- Demonstrate comprehension of user experience design for mobile, wearable and smart devices.
- Demonstrate skills of object-oriented programming in a scripting language.



Intended Learning Outcomes

- Demonstrate skills of creating high-fidelity prototypes and wire-frames for mobile devices.
- Demonstrate the ability to create a crossplatform mobile application.
- Demonstrate the ability to choose an appropriate design of user experience based on the type of a device



Weekly Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00	08:00 [©] TAAI9H19-, TAIU7H19-	08:00 DTAIU7H19- TDWR29_H20_T0308-			
09:00	TDWR29 H20 T0308-	L2			
10:00					
11:00		11:45			
12:00					
13:00		13:00 TAAI9H19- TDWR29_H20_T0308-			
14:00		L1 €2433 Lab			
15:00					
16:00		16:45			
17:00					
18:00					
19:00					

- Lectures are scheduled for release each Monday at 08:00
- Labs are on Tuesdays
 - ✓ Group 1: 08:00 11:45
 - ✓ Group 2: <u>13:15 17:00</u>
 - ✓ Sign up for on of the groups on Canvas
- Labs are conducted on campus, *not online*



Examination

Two tests

- ✓ Laboratory Work, 3.5 credits (3/4/5/F).
- ✓ Project Work, 4 credits (3/4/5/F).

These two will be weighted together and determine the final grade.



Laboratory work

Two assignments

- Create a Vue Native (cross platform) application
- Communicating with a backend

You need to pass both to pass the test

Present your solutions orally at one of the lab sessions

Optional tasks can be completed to collect points

Optional tasks award points for higher grades



Laboratory work

Two assignments

- Create a Vue Native (cross platform) application
- Communicating with a backend

You need to pass both to pass the test

Present your solutions orally at one of the lab sessions

Optional tasks can be completed to collect points

Optional tasks award points for higher grades



Lectures

Lecture 1: Introduction

Scheduled for publishing 2020-08-26 (delayed 1 day)

Lecture 2: Introduction to Vue Native

Scheduled for publishing 2020-08-31

Lecture 3: Vue Native continued

Scheduled for publishing 2020-09-07

Lecture 4: Firebase & Smart Devices

Scheduled for publishing 2020-09-14

Lecture 5: Designing for connected devices

Scheduled for publishing 2020-09-21

Lecture 6: Designing for connected devices continued

Scheduled for publishing 2020-09-28

Six lectures in total

- Introduction
- ✓ Vue Native
- ✓ Firebase
- Smart / Connected devices
- ✓ Design