



# Web Programming with The Laravel Framework

Assignment 3 – Sommer Semester 2022

Tübingen, 5. Juni 2022

**Handin** Please submit this homework by email to Steven Lolong (steven.lolong@uni-tuebingen.de) by Friday, 17 June 2022, before 24:00.

## Web Application

The widespread virus Sun-X caused the lockdown in some areas. One vaccine research centre tries to find a vaccine for the virus Sun-X. This research centre will share research progress through a website with all researchers. The requirement is only the authorised researchers can see this information. You as a programmer in this research centre have a responsibility to develop a small web portal for this. Requirements:

1. Using session to save logged status
2. Design must follow MVC+
3. Must have config file to save address, username, password, and scheme of the database server
4. Helper file (optional)
5. Create and Update data using web forms to get input from users
6. Both applications use the same database

**All applications must be developed using Laravel Framework!**

### Task 1: Back-End Application (6 points)

Build a back-end application for an administrator to create, read, update, and delete researcher's profile (name, profile picture, login id, and password) and research progress (title, date, and description of progress). Only one administrator can log in to the back-end application, which means you should save administrator username and password as variables in the source code.

### Task 2: Front-End Application (4 points)

Create a web application for researchers where researchers can view information about research progress. To access information on research developments, researchers must first log in. Researchers can change passwords to log in and change profile picture.

Please send only the controller, model, database structure, view, router (web.php), config, and explanation about how to copy those files into Laravel!