

Introduction

WASA: Web and Software Architecture

Prof. Emanuele Panizzi

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Office hours: on Wednesdays, online on Google Meet

Please book: <https://goo.gl/Y4QhFC>

Dott. Enrico Bassetti

Lab: GamificationLab, Via dei Volsci 122 (sede Sapienza “ex Vetrerie”)



- Use standard tools and frameworks: git, Vue.js
- Use web markup language HTML, and CSS
- Learn powerful programming languages: javascript, go
- Design and implement an Application Programming Interface (API)
- Design a whole client-server web application
- Package software into containers and deploy it: Docker, Kubernetes

0. INTRODUCTION: web apps, REST, git
1. API: JSON, OpenAPI
2. BACKEND: go language
3. FRONTEND: Javascript, Vue.js
4. CONTAINERS: Docker, Kubernetes

<http://gamificationlab.uniroma1.it/wasa>

- course description
- course “stream”: updated each week, contains:
 - topics for each lesson,
 - links to slides, example code, other material
 - announcements
 - instructions for code submission and exams
- slides: contains each lesson’s slides in pdf
- FAQ
- kit: link to downloadable materials

You must download the virtual machine we prepared and run it on your computer.

It contains all the necessary tools for this course.

You need to use git for all the code you will develop, and you can open a GitHub account from where we will download the code you'll submit for the exam.

- Book: **Introduction to full stack web development with Go and Vue.js** - you can buy it on Leanpub
<https://leanpub.com/wasa>
- Slides, available on the WaSA website for each lesson
- example code
- Documentation for all the topics is available on the web and will be pointed out during the course.

- four evaluation steps, based on your submitted code, graded /30:
 - API
 - backend
 - frontend
 - containers
- I will evaluate your code periodically and publish results
- You must pass (get a grade to) all the steps to access the oral exam
- Average grade of the four steps is the presentation grade to the oral
- Oral exam is a discussion of the whole work, with the final grade

1. I will only answer questions about course topics during lessons or office hours. I will trash any messages I receive containing such questions.
2. I will trash messages containing questions already answered on the website (no reply).
3. I will trash messages containing homework or exam submissions (no reply). Please follow the submission instructions that I will publish on the website.