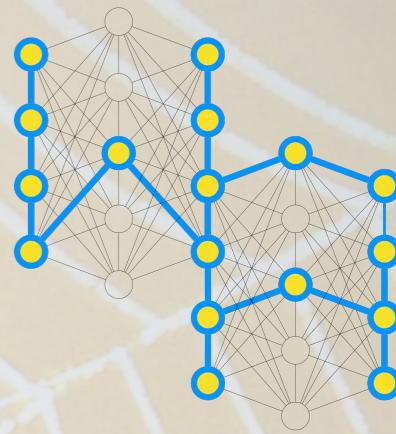


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1222 • 2022



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



Overall Organisation

Web Applications

Master Degree in Computer Engineering

Master Degree in Cybersecurity

Master Degree in ICT for Internet and Multimedia

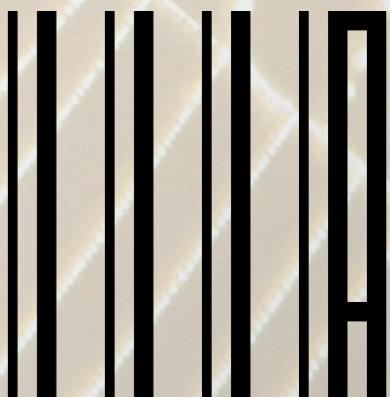
Academic Year 2023/2024

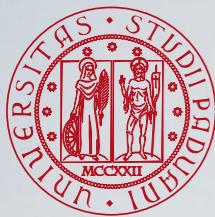
Nicola Ferro

Intelligent Interactive Information Access (IIIA) Hub
Department of Information Engineering
University of Padua

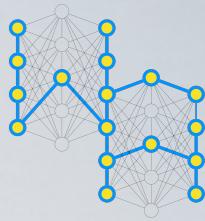


DIPARTIMENTO
DI INGEGNERIA
DELL'INFORMAZIONE



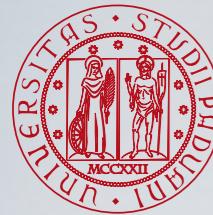


Outline

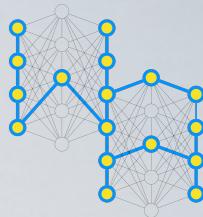


- Objectives
- Contents
- Organisation
- Exams

Objectives and Contents



Web Applications



ATTENZIONE: SOSPENSIONE DEI SERVIZI UNIWEB OGGI ALLE ORE 13:30

» Appelli d'esame

Appelli d'esame

La pagina presenta l'elenco di tutti gli insegnamenti per i quali è possibile visualizzare o gestire appelli d'esame.
La lista può comprendere anche insegnamenti non più attivi, in questo caso viene indicato l'ultimo anno di offerta.

ATTENZIONE:

Si ricorda che la procedura permette allo studente di iscriversi all'appello solo dopo aver compilato il questionario di valutazione della didattica. Le date di inizio e fine iscrizione agli appelli della prima sessione successiva al periodo di erogazione delle lezioni devono pertanto essere all'interno della finestra temporale di apertura del questionario. Per verificare le date di apertura del questionario previste per le proprie attività didattiche, consultare la sezione 'Monitoraggio Questionari', collegandosi con single (https://apex.cca.unipd.it/pls/apex/f?p=155).

Attività didattica [codice]	Corso di studi (tipo corso)
FOUNDATIONS OF DATABASES [INQ0090799]	COMPUTER ENGINEERING [IN2547] (LM, D.M. 270/2004)
DATABASES [INP9086758]	ICT FOR INTERNET AND MULTIMEDIA - INGEGNERIA PER LE COMUNICAZIONI MULTIMEDIALI E INTERN
SEARCH ENGINES [INQ0091599]	COMPUTER ENGINEERING [IN2547] (LM, D.M. 270/2004)
REPERIMENTO DELL'INFORMAZIONE [INM0016444]	INGEGNERIA INFORMATICA [IN0521] (LM, D.M. 270/2004)
WEB APPLICATIONS [INP9087843]	ICT FOR INTERNET AND MULTIMEDIA - INGEGNERIA PER LE COMUNICAZIONI MULTIMEDIALI E INTERN
WEB APPLICATIONS - APPLICAZIONI WEB [INP6075457]	COMPUTER ENGINEERING [IN2547] (LM, D.M. 270/2004)
WEB APPLICATIONS - APPLICAZIONI WEB [INP6075458]	INGEGNERIA INFORMATICA [IN0521] (LM, D.M. 270/2004)
DATABASE MANAGEMENT SYSTEMS [INP9087841]	ICT FOR INTERNET AND MULTIMEDIA - INGEGNERIA PER LE COMUNICAZIONI MULTIMEDIALI E INTERN
DATABASE MANAGEMENT SYSTEMS - SISTEMI DI GESTIONE DI BASI DI DATI [INP6076257]	INGEGNERIA INFORMATICA [IN0521] (LM, D.M. 270/2004) (fino al 2019/2020)
DATABASES [INP9086758]	ICT FOR INTERNET AND MULTIMEDIA - INGEGNERIA PER LE COMUNICAZIONI MULTIMEDIALI E INTERN
DATABASES - BASI DI DATI [INP6075438]	INGEGNERIA DELLE TELECOMUNICAZIONI [IN0524] (LM, D.M. 270/2004) (fino al 2019/2020)
DATABASE MANAGEMENT SYSTEMS - SISTEMI DI GESTIONE DI BASI DI DATI [INP6076257]	INGEGNERIA INFORMATICA [IN0521] (LM, D.M. 270/2004) (fino al 2018/2019)
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CORSO: WEB APPLICATIONS 20/21

Home > Corsi > Corsi di Laurea Magistrale > Secondo Semestre > 2021-m-ICT11

Attiva modifica

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 - 2021-m-ICT11
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 - Competenze
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Il tuo stato di avanzamento

Announcements

Remote Attendance

Web Applications - Lectures

Web Applications - Tutor

Teaching Material

01-Webapp-2020-2021-organisation

Tutor

HW1-Template-Webapp-2020-2021

HW1-Template-Webapp-2020-2021

Exam Simulation

Webapp 2020/21 - Exam Simulation

All the exams for the Web Applications course will be given under a special "course" called Esami Web Applications

This exam simulation is available under the same "course" to let you practice with the overall workflow. The password for accessing the exam simulation is webapp2021

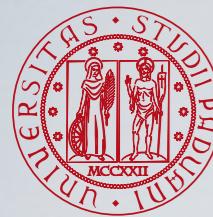
You may need to enroll in the "course" with the registration list Webapp 2020/21 - Exam Simulation whose password is (again) webapp2021

Annunci Recenti

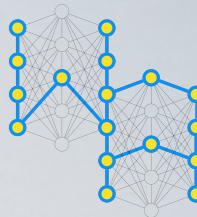
Aggiungi nuovo argomento...
(Non ci sono annunci.)

Prossimi Eventi

Non ci sono eventi prossimi
Vai al calendario...



Web Applications



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UNIVERSITÀ
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Uniweb

MENU

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Appelli d'esame



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Wikiquote

Wikisource

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Wiktionary

Main Page

Talk

Welcome to Wikipedia,

the free encyclopedia that anyone can edit.
6,251,090 articles in English

From today's featured article



Planet of the Apes is an American science-fiction media franchise consisting of films, books, television series, comics, and other media about a world in which humans and intelligent apes clash for control. Based on French author Pierre Boulle's 1963 novel *La Planète des singes*, its 1968 film adaptation, *Planet of the Apes*, was a critical and commercial hit. From 1970 to 1973 four sequels followed the original film: *Beneath the Planet of the Apes*, *Escape from the Planet of the Apes*, *Conquest of the Planet of the Apes* and *Battle for the Planet of the Apes*. They did not approach the critical acclaim of the original, but were commercially successful, spawning two television series in 1974 and 1975. Tim Burton's *Planet of the Apes* film was released in 2001. A reboot film series began in 2011 with *Rise of the Planet of the Apes*, which was followed by *Dawn of the Planet of the Apes* in 2014 and *War for the Planet of the Apes* in 2017. The films have grossed over \$2 billion worldwide. ([Full article...](#))

Recently featured: *Dermotherium* · *Silesian Wars* · M113 armoured personnel carriers in Australian service
[Archive](#) · [By email](#) · [More featured articles](#)

Did you know ...

- ... that **Universalkünstler Arik Brauer** (pictured) created paintings in **Fantastic Realism**, songs in **Austropop**, stage sets for the **Paris Opera**, and house facades in Austria and Israel?
- ... that the **1888 eruption of Ritter Island** reduced the 780-metre tall (2,560 ft) volcano to a height of just 140 metres (460 ft)?
- ... that sisters Amal, Hadia, and Hayat Talsam, known as **Al Balabil**, were referred to as "The Sudanese Supremes"?
- ... that academic analysis of **The Diving Pool** has interpreted the use of food as a way to poison others as a critique on Japanese femininity?
- ... that the world's richest self-made woman, **Zhong Huijuan**, started out as a middle-school chemistry teacher?
- ... that **23 Wall Street** has been called one of the "big little buildings of Wall Street"?
- ... that the 2018 comedy film **A Bread Factory**, about the difficulty of producing meaningful artistic work in a market economy, received acclaim from critics but earned less than \$18,000 at the box office?
- ... that **Gauthier Mbumbi** has been called the "Shaq of handball", the "Congo Colossus", and "the most popular handball player on the Earth"?



Arik Brauer in front of his painting, 2009

Read

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Search Wikipedia

In the news

- Ngozi Okonjo-Iweala** (pictured) becomes the first woman and the first African appointed **Director-General of the World Trade Organization**.
- Former **President of Argentina Carlos Menem** dies at the age of 90.
- Former **President of the United States Donald Trump** is acquitted by the **Senate** in his **second impeachment trial**.
- Mario Draghi becomes **Prime Minister of Italy**, leading a **national unity government** after the resignation of Giuseppe Conte.



Ngozi Okonjo-Iweala

Ongoing: COVID-19 pandemic · Myanmar protests

Recent deaths: Arne Sorenson · George Benneh · Pat Russell · Zachary Wohlman · Doug Mountjoy · William Macpherson

Nominate an article

On this day

February 17: Ash Wednesday (Western Christianity, 2021)

- 1621 – **Myles Standish** was elected the first commander of the **Plymouth Colony** militia.
- 1859 – **Cochinchina campaign**: French Navy forces captured the **Citadel of Saigon** (ruins pictured), defended by 1,000 Vietnamese soldiers of the **Nguyễn dynasty**.
- 1913 – The **Armory Show**, the first large **modern-art** exhibition in the United States, opened at the **69th Regiment Armory** in New York City.
- 1978 – **The Troubles**: The Provisional Irish Republican Army detonated a bomb at the **La Mon restaurant** near Belfast, Northern Ireland, killing twelve people and injuring thirty others.
- 2011 – **Arab Spring**: Bahraini security forces **killed four protesters in a pre-dawn raid** at the **Pearl Roundabout** in Manama, while a **"Day of Rage"** took place in Libya with nationwide protests against **Muammar Gaddafi**'s government.



Ruins of the Citadel of Saigon

Ivan Alexander of Bulgaria (d. 1371) · Mary Carson Breckinridge (b. 1881) · Ed Sheeran (b. 1991)

2021-m-ICT10

2021-m-IL21

2021-m-IF27

2021-m-IBM11

You may need to enroll in the "course" with the registration list

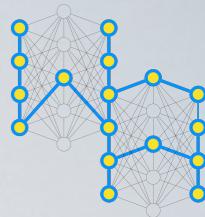
Webapp 2020/21 - Exam Simulation

whose password is (again)

webapp2021



Web Applications



ATTENZIONE: S

B Home Docs Examples Icons Themes Blog Download

Build fast, responsive sites with Bootstrap

Quickly design and customize responsive mobile-first sites with Bootstrap, the world's most popular front-end open source toolkit, featuring Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful JavaScript plugins.

[Get started](#) [Download](#)

Currently v5.0.0-beta2 · [v4.6.x docs](#) · [All releases](#)

 Adobe Creative Cloud for Teams starting at \$33.99 per month.
ads via Carbon

Installation

Install Bootstrap's source Sass and JavaScript files via npm, Composer, or Meteor.

Package managed installs don't include documentation or our full build scripts. You can also [use our npm template repo](#) to quickly generate a Bootstrap project via npm.

[Read installation docs](#)

\$ npm install bootstrap@next [Copy](#)

\$ gem install bootstrap -v 5.0.0.beta2 [Copy](#)

2021-m-IL21
2021-m-IF27
2021-m-IBM11

You may need to enroll in the "course" with the registration list
Webapp 2020/21 - Exam Simulation
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webapp2021

Wikipedia

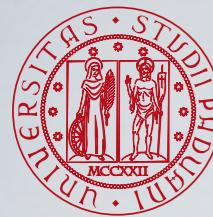
Society
Technology
All portals

NS 20/21

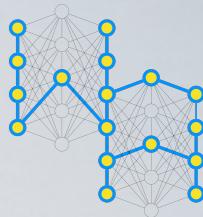
Annunci Recenti
Aggiungi nuovo argomento...
Non ci sono annunci.

Prossimi Eventi
Ngozi Okonjo-Iweala
Russell · Zachary Wohlman · Doug
Nominate an article

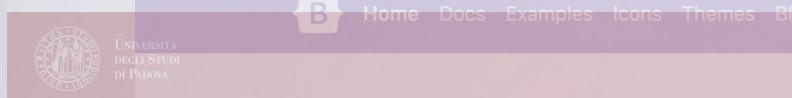
Under of the Plymouth
Captured the Citadel
Army detonated a
exhibition in the
in New York City.
Army detonated a
Irish, killing
course will be given
protesters in a pre-dawn raid at the
" took place in Libya with nationwide
the same "course" to let
reckinridge.(b. 1881) · Ed Sheeran



Web Applications



ATTENZIONE: SOSPENSIONE DEI SERVIZI UNIWEB OGGI ALLE ORE 13:30



» Appelli d'esame

Appelli d'esame

Build fast, responsive
with Bootstrap

ATTENZIONE:

Si ricorda che la procedura permette allo studente di arrivare all'appello solo dopo aver compilato il questionario di valutazione della finestra temporale di apertura del quesito.

La lista può comprendere anche insegnamenti non più attivi. In questo caso viene indicata l'ultimissima di offerta.

Main Page · Help

Quick WIKIPEDIA and customize responsive mode

Welcome to WIKI

the free encyclopedia that anyone can edit

Bootstrap, the world's most popular front-end framework

featuring Sass variables and mixins, responsive prebuilt components, and powerful JavaScript

Main page · Contents · From today's featured article · ICI FOR INTERNET AND COMPUTER ENGINEERING · INGEGNERIA INFORMATICA · ICI FOR INTERNET AND COMPUTER ENGINEER

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FOUNDATIONS OF DATABASES [INQ0090799]

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Contribute · Currently v5.0.0-beta2 · v4.6.x docs · All releases · COMPUTER ENGINEER · hey what's going on? · 10m

Learn to edit · Community portal · Recent changes · Upload file · Adobe Creative Teams starting at \$33.99 per month.

WEB APPLICATIONS - APPLICAZIONI WEB [INP6075457]

WEB APPLICATIONS - APPLICAZIONI WEB [INP6075459]

DATABASE MANAGEMENT SYSTEMS [INP9087841]

DATABASE MANAGEMENT SYSTEMS - SISTEMI DI GESTIONE DI DATI [INP6075449]

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Install Bootstrap's source Sass and JavaScript files via Composer or Meteor.

Package managed installs don't include documentation or our full scripts. You can also use our npm template repo to quickly generate a Bootstrap project via npm.

Read installation docs

Messenger

Search

Alice Chuang Sent a GIF from Tenor · Now

James Nuemann hey what's going on? · 10m

Crew Meet at the park? 1pm? · 14m

Jamie Sharpsteen yeah, that's what I was talking about... · 4h

Surf Crew Sent you a video · 1d

Hailey Cook omg lol no way what? · 1d

Karan heh no · 1d

Kara, Brian, Jean-Marc pedanticalice sent a photo · 2d

Susie Lee Close enough · 2d

Crew
Last active 2 hours ago

Connor

Imao

hahahah omg

My friend Sarah will love this

Hazel

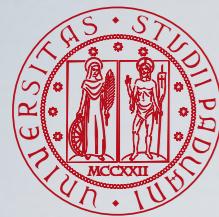
So good Imao

When are we hanging out?
Going to be hot on Saturday

I'm super down for Saturday?

Meet at the park? 1pm?

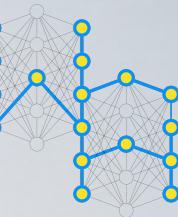
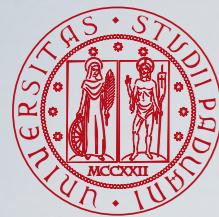
Type a message...



Web Applications

The collage illustrates various web applications:

- Uniweb**: A screenshot of the Uniweb website for the University of Padua, featuring a banner about suspending services, a navigation bar with Home, Docs, Examples, Icons, Themes, Blog, and a Download button.
- Build fast, responsive sites with Bootstrap**: A large screenshot of a website using Bootstrap, showing a grid of people's faces and a sidebar with messaging and file sharing.
- Messenger**: A screenshot of a messaging interface showing a group video call with multiple participants and a text chat on the left.
- Crew**: A screenshot of a collaborative workspace or project management tool showing a list of items and a search bar.
- Facebook**: A screenshot of the Facebook interface showing a news feed with posts from friends and a sidebar for messaging.



Web Applications

ATTENZIONE: SOSPENSIONE DEI SERVIZI UNIWEB OGGI ALLE ORE 13:30

B Home Docs Examples Icons Themes Blog Uniweb

Appelli d'esame

Build fast, responsive sites with Bootstrap

La pagina presenta l'elenco di tutti gli insegnamenti per i quali è possibile visualizzare o gestire appelli d'esame. La lista può comprendere anche insegnamenti non più attivi. In questo caso viene indicata l'ultimissima di offerta.

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Quickly build and customize responsive mobile-first sites with the free encyclopedia that anyone can edit. 5,271,000 articles in English.

Attività didattica [codice]

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DATABASES [INP9086758]

SEARCH ENGINES [INQ0091599]

REPERIMENTO DELL'INFORMAZIONE [INM0016449] Download

WEB APPLICATIONS [INP9087843] 8:14

Pete, Krystal + 4 WEB APPLICATIONS - APPLICAZIONI WEB [INP6075457] Learn to edit Community portal

WEB APPLICATIONS - APPLICAZIONI WEB [INP6075459] Changes Help

DATABASE MANAGEMENT SYSTEMS [INP9087841] Upload file

DATABASE MANAGEMENT SYSTEMS - SISTEMI DI GESTIONE DI DATI [INP6075457] Tools

DATABASES [INP9086758] What links here Related changes

DATABASES - BASI DI DATI [INP6075438] Special pages Permanent link

WEB APPLICATIONS - APPLICAZIONI WEB [INP6075457] Page information Wikidata item

WEB APPLICATIONS - APPLICAZIONI WEB [INP6075458] Print/export

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Excited for you! WEB APPLICATIONS - APPLICAZIONI WEB [INP6075458] Printable version

Installation

Install Bootstrap's source Sass and JavaScript files via npm

Composer or Meteor. Wikidata

Package managed installs don't include documentation or our full build scripts. You can also [use our npm template repo](#) to quickly generate a

Bootstrap project via npm. Wikidata

Here's hoping. I'm nervous but I've been practicing all week! Read installation docs

Type a message

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Type a message

The image shows three iPhone screens displaying the Southwest Airlines mobile application. The top screen shows a welcome message: "Well hello, Lisa." with a blue header and a small profile picture. The middle screen shows a messaging interface with a message from "Get ready to fly!" at 8:00 AM: "We're so excited to have you this morning! This is the start to a new chapter in your career and we're thrilled to have you on the Southwest team. Let's do this!". Below it is a message from "Your shuttle is on its way." at 7:15 AM: "Meet in your hotel lobby." The bottom screen shows a "New Hire Experience" section with a group photo of Southwest employees and a "New Hire Checklist" button.

Southwest 74°

Well hello, Lisa.

Messages Activity Pinned

TODAY

Get ready to fly! 8:00 AM

We're so excited to have you this morning! This is the start to a new chapter in your career and we're thrilled to have you on the Southwest team. Let's do this!

Your shuttle is on its way. 7:15 AM

Meet in your hotel lobby.

YESTERDAY

Dinner's on us tonight 6:00 PM

Meet in the TOPS Lobby.

New Hire Checklist 6:00 PM

Be sure to review this checklist to ensure you

Home Programs Campus Resources Search

EXPLORE

Enrolled All

New Hire Experience

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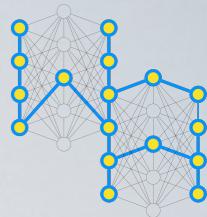
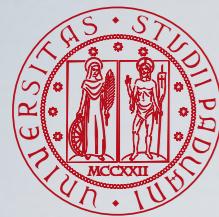
Meet in the TOPS Lobby.

New Hire Checklist 6:00 PM

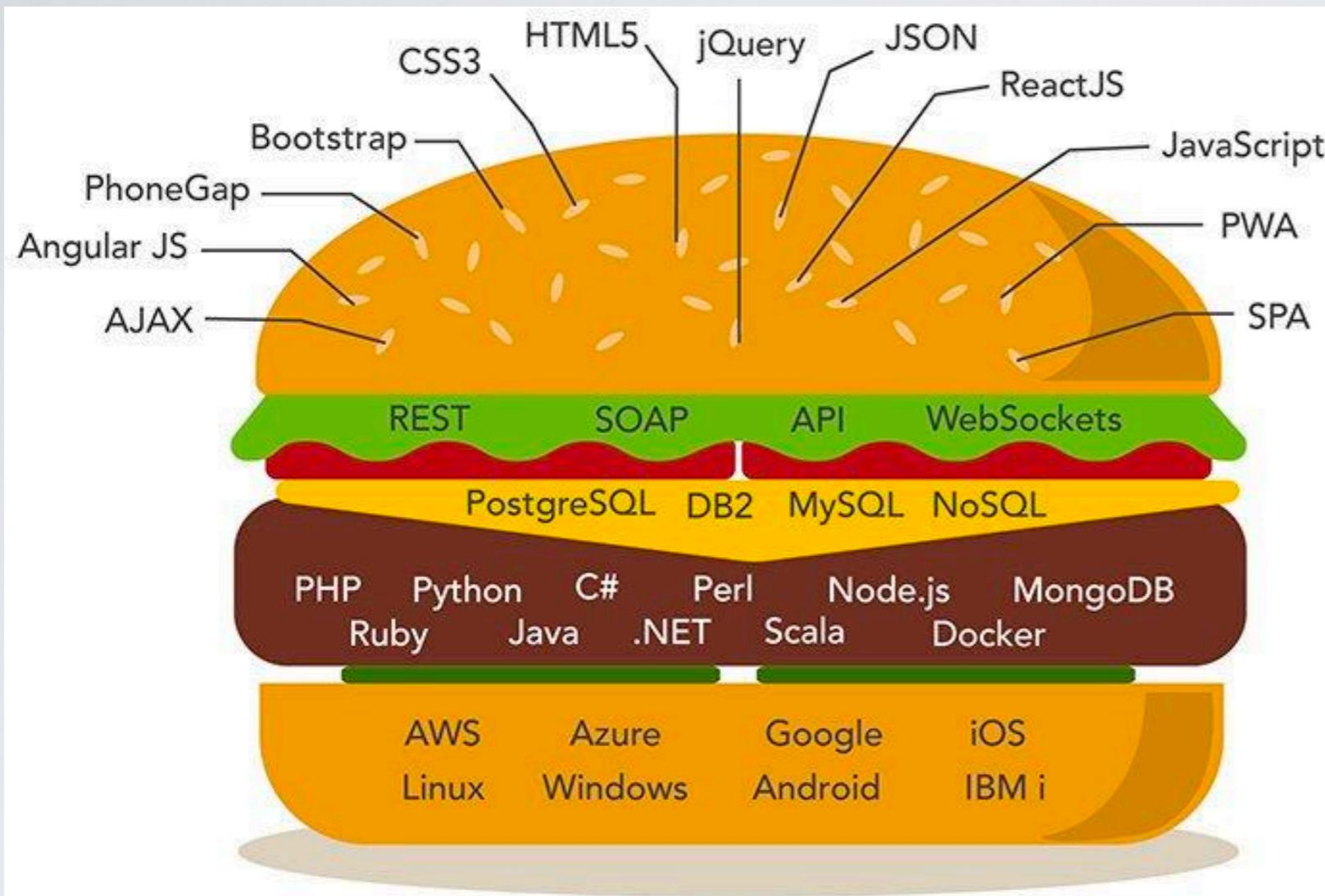
Be sure to review this checklist to ensure you

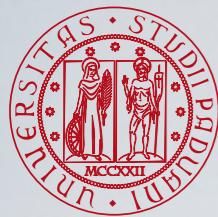
Home Programs Campus Resources Search

EXPLORE

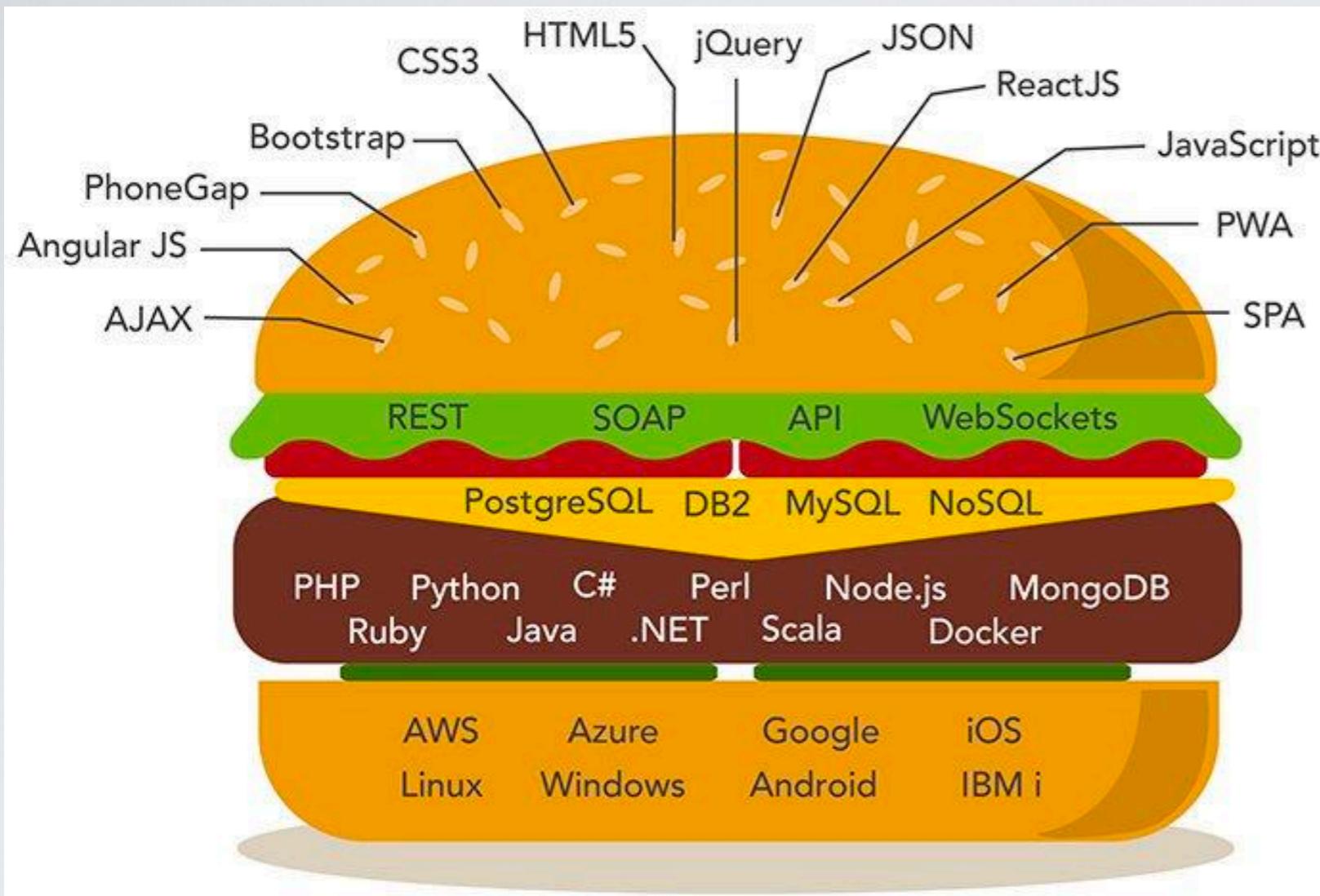
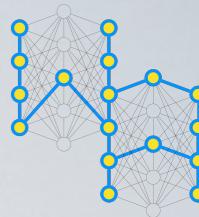


The Full-Stack



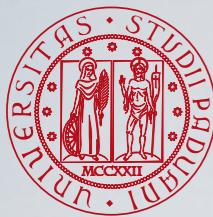


The Full-Stack

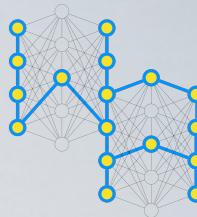


- You need to be a fluent programmer
 - you need to know Java
- You will learn a view on programming different from what you might be used to
 - you will learn an “architectural” approach to programming



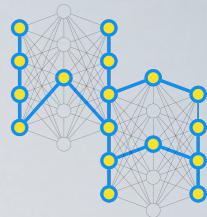
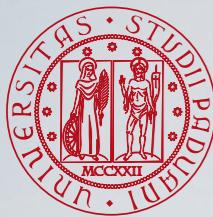


Objectives



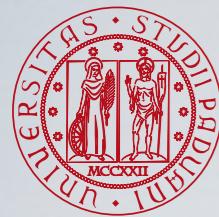
To learn the methodologies for the **design** and **development** of Web applications, practicing them through the implementation of an actual Web application.

- A strong computer science competence on Web engineering, design methodologies and architectural alternatives
- Knowledge of the characteristics of Web 1.0 applications and Web 2.0 applications
- Capability of developing a Web application using Java servlets, Javascript, CSS3 and HTML5

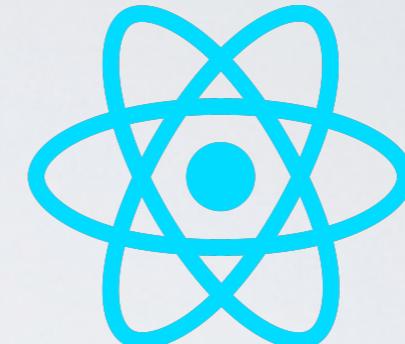
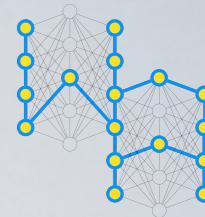


Contents

- Introductory part
- Distributed application architectures
- Web browser and Web Server Architecture
- Markup languages, XML and JSON
- Development tools (git, maven, ...)
- Server side technologies
 - HTTP
 - Tomcat / Java Servlet
- JSP / MVC
- REST web services
- Semantic Web
- Client side technologies
 - HTML5
 - CSS3
 - Bootstrap / Responsive app
 - Javascript
 - AJAX / Single page web applications
 - JQuery / MVC



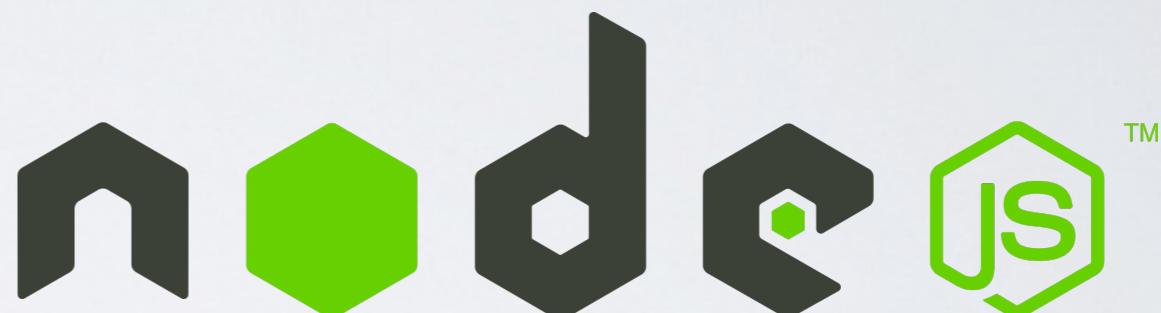
Web Frameworks



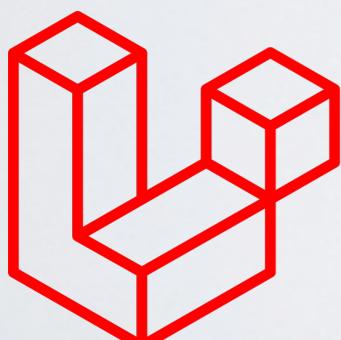
React



ANGULAR



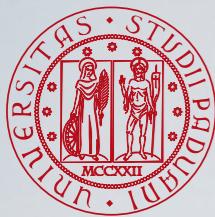
django



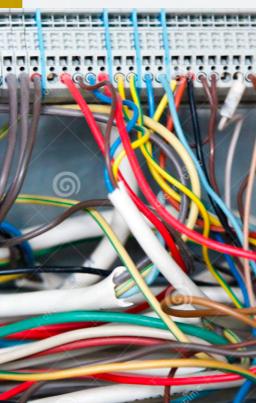
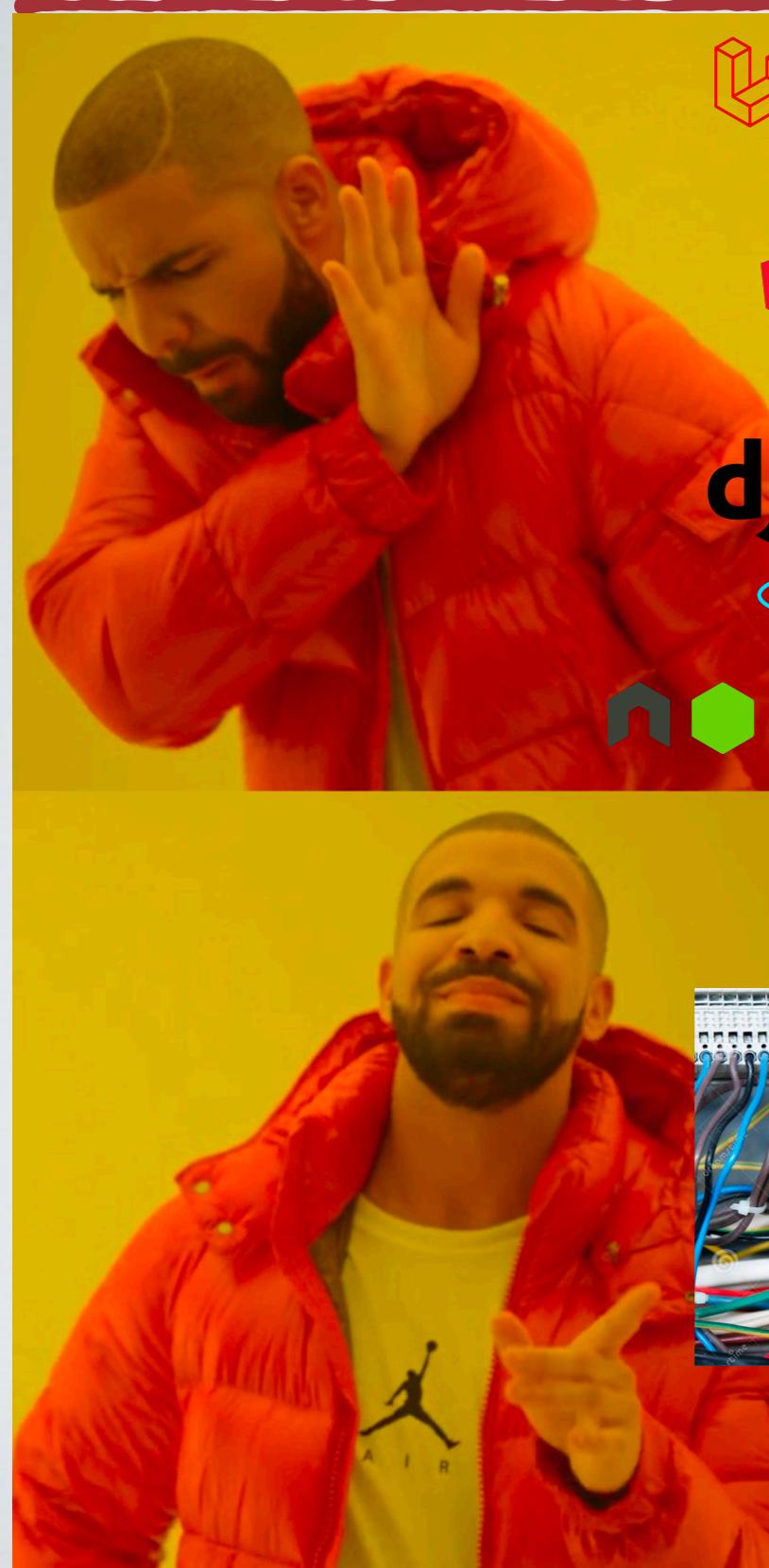
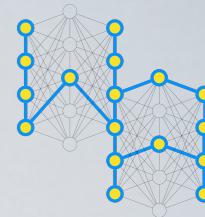
Laravel



spring®

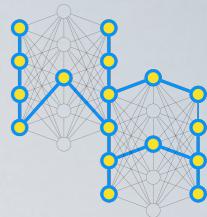


Web Frameworks... Not This Time



- Frameworks come and go
- Frameworks force a specific design and development style... sometimes they are said to be “opinionated”
- Frameworks make a lot of sense in production

- This is an introductory course to Web applications whose goal is to let you learn their principles
- We need to stay “close to the metal” to understand the inner working of Web applications so that you will know what to seek in a framework and what is wrapped by a framework
- They keep remembering me that this is just a 6 CFU course



Should I Attend this Course? Maybe NO

- Web Applications is an introductory course

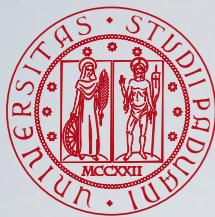


If you have already attended one or more courses on **web applications** during **bachelor**, you **SHOULD NOT attend** this course

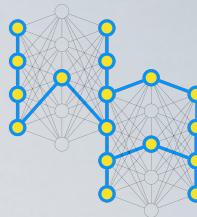
- Just replace this course with another one in your study plan

- For **Computer Engineering - WIDE** curriculum is a mandatory course but you can just ask to replace it with another course in your study plan
- For **Computer Engineering - Other curricula**, it is not a mandatory course, so you simply do not add it to your study plan
- For **Cybersecurity**, it is not a mandatory course, so you simply do not add it to your study plan
- For **ICT - Cybersystems curriculum** it is not a mandatory course, so you simply do not add it to your study plan
- For **ICT - Other curricula**, it is not a mandatory course, so you simply do not add it to your study plan

Organisation

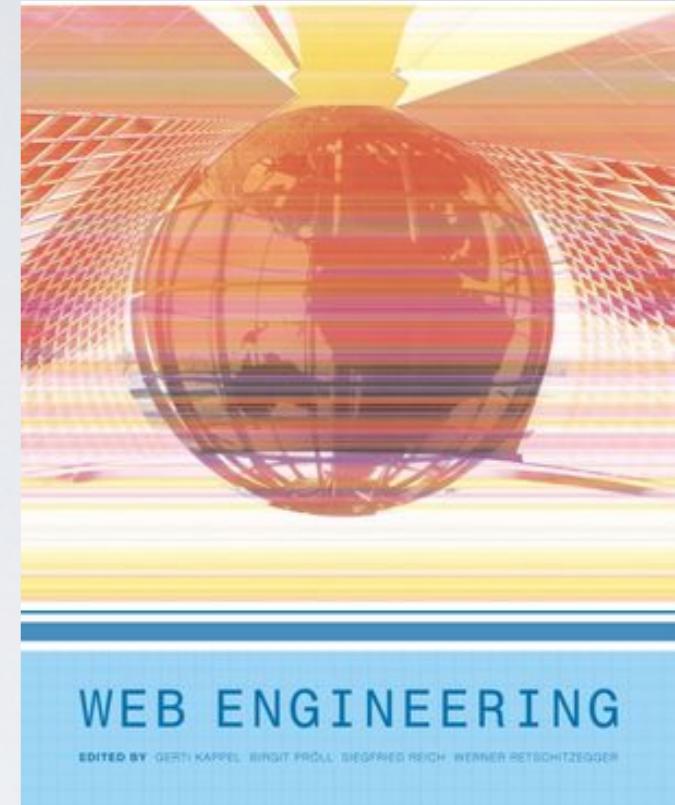


Organisation



Course

- Master degree in: Computer Engineering; Cybersecurity; ICT for Internet and Multimedia
- 6 CFU, 48 hours of lectures
 - Lectures (should) end on 6 June 2024
- Exams: **NO extra exams**
 - Intermediate exam: 6 June 2024 at 14:30, Room Ce (lecture slot)
(end of lectures, substitutes the exam in the regular sessions)
 - I exam: 21 June 2024 at 09:00, Room Ee (and Pe, if needed)
 - II exam: 8 July 2024 at 14:30, Room Ce
 - III exam: 17 September 2024 at 10:00, Room Ce
 - IV exam: January/February 2025 (when the schedule of the new academic year will be known)

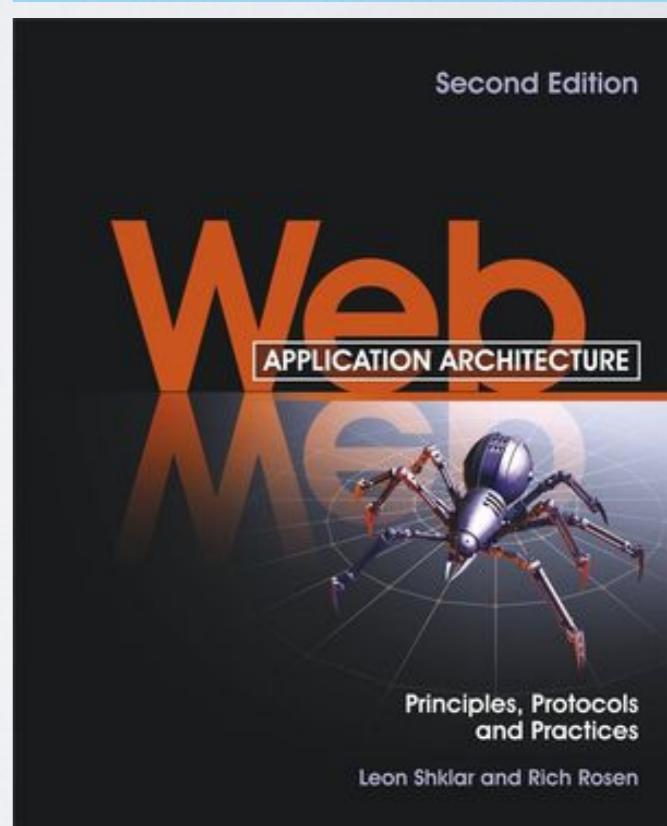


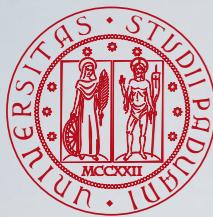
Office hours

- **Tuesday 16:30–18:30 [send an e-mail] and/or just after lecture**
Building DEI/G, Office 308, III floor

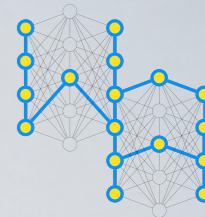
Textbooks (somehow)

- Kappel, G., Pröll, B., Reich, S., and Retschitzegger, W., **Web Engineering. The Discipline of Systematic Development of Web Applications**. New York, USA: John Wiley & Sons, 2006.
- Shklar, L. and Rosen, R., **Web Application Architecture: Principles, Protocols and Practices**. New York, USA: John Wiley & Sons, 2011, 2nd edition.





Schedule



Thursday

- 14:30 - 16:30, Room Ce

Friday

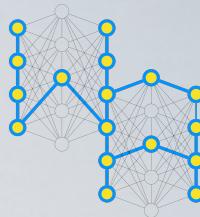
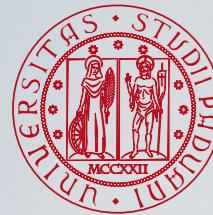
- 14:30 - 16:30, Room Be

Tutor Senior will show a homework project step-by-step

- Ornella Irrera

- Tuesday, 14:30-16:30, Room Ee, starting from 19 March 2024

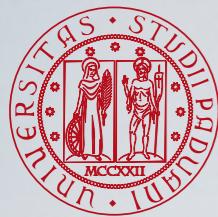
- no tutorship on 2 April 2024 (Easter Holiday) and 30 April 2024 (no lectures due to previous holidays)



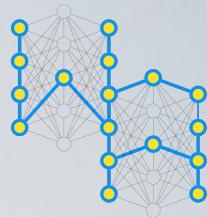
Teaching Material

The screenshot shows the Moodle course page for 'INP9087843 - WEB APPLICATIONS 2023-2024'. The top navigation bar includes links for Unipd, Educational Offer, Timetables, Uniweb, Webmail, My Media, English (en), Webmail, and Uniweb. The course header displays the department (DEPARTMENT OF INFORMATION ENGINEERING - DEI / A.A. 2023 - 2024), degree (Corsi di laurea magistrale / Master's degrees), and course code (IN2547 - COMPUTER ENGINEERING). The course title is 'INP9087843 - WEB APPLICATIONS 2023-2024'. The main menu includes Course, Participants, Grades, Competencies, Media Gallery, and More. The left sidebar shows sections for 'WEB APPLICATIONS 2023-2024 - PROF. NICOLA FERRO' (Teaching Offering Page, Announcements), 'Schedule' (with a list of lectures and a 'Mark as done' button), and 'Main Deadlines' (with a list of deadlines and a 'Mark as done' button). The right sidebar features 'LATEST ANNOUNCEMENTS' (No announcements have been posted yet.), a 'CALENDAR' for February 2024 (with a red circle around the 18th), 'RECENT ACTIVITY' (Activity since Friday, 16 February 2024, 8:28 PM, including course updates, forum posts, and file uploads), and 'Import or export calendars'.

- Moodle is the central reference for teaching material, announcements, and so on. If not already done, please, register asap.
 - <https://stem.elearning.unipd.it/course/view.php?id=8494>
- Please, DO NOT USE Moodle internal forum/messages to get in contact
 - it does not allow to reply to emails
 - Please, use email
 - in any case, always keep EVERYONE in cc (instructors, colleagues, ...)



Git Repositories with Examples



Web Applications

Repositories

Add repositories

Name	Size	Last updated	Builds
tutor-2021	2.5 MB	2021-05-06	
tutor-2022	5.5 MB	2022-05-12	
tutor-2023	25 MB	2023-05-28	
wa-homework-template	4 MB	1 minute ago	
webapp-unipd	92.4 MB	2023-03-25	

Nicola Ferro / Web Applications
webapp-unipd

Invite Clone ...

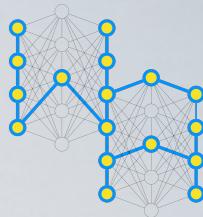
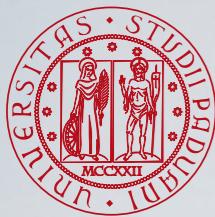
Code examples used in the "Web Applications" course of the Master Degree in Computer Engineering, Master Degree in ICT for Internet and Multimedia, and Master Degree in Cybersecurity of the Department of Information Engineering, University of Padua, Italy.

master Files Filter files

Name	Size	Last commit	Message
employee-jsp-jdbc		2023-03-22	Improved exception handling
employee-multipart-mail-jdbc		2023-03-25	New employee application with multipar...
employee-rest-ajax		2023-03-23	New and improved version
employee-rest-jdbc		2023-03-23	Fixed HTTP status code.
employee-servlet-jdbc		2023-03-22	Improved exception handling
employee-session-jdbc		2023-03-22	Improved exception handling
exam-simulation-client-side		2022-03-17	added log4j hello world
exam-simulation-server-side		2022-03-17	added log4j hello world
exercise-d3		2018-05-31	Exercise jQuery and d3
exercise-jQuery		2018-05-31	Exercise jQuery and d3
form-validation		2022-03-17	added log4j hello world
hello-quokka-html-css		2022-03-17	added log4j hello world
hello-quokka-html		2022-03-17	added log4j hello world
hello-world-figlet		2023-03-08	Updated POM
hello-world-html		2023-03-15	Updated
hello-world-jsp-form		2023-03-10	Updated POM, servlet 6.0
hello-world-jsp		2023-03-10	Updated POM, servlet 6.0
hello-world-jsp-filters		2023-03-10	Updated POM, servlet 6.0

- At the following address
<https://bitbucket.org/frrncl/workspace/projects/WEB>
you will find git repositories containing examples developed during lectures and tutorship

- You can freely clone them
- They are also directly linked from the Moodle page of the course



Exam Modalities

Group Project split into 2 homeworks

- group project (5-6 people)
- **homework 1:** report on server-side design and implementation, **due 29 April 2024**
- **homework 2:** oral presentation plus demo (15-20 minutes) on client-side/overall design and implementation
 - slides and code **due 7 June 2024**
 - actual presentation plus demo on **11 June 2024** (room/schedule to be defined)
- each homework is scored in the range [0, 9]
- outstanding homeworks can get 1 additional point
- **overall score in the range [0, 20], threshold 6**
 - the range is [0, 18] but, if you consider that each homework can obtain 1 extra point for outstanding work, the range actually becomes [0, 20]

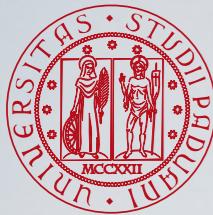
Intermediate/Regular Exam

- It is an **oral exam**. However, if more than 15 students (> 15) are present at an exam, it will turn into a **moodle-based questionnaire**
- In case of a moodle-based questionnaire: 24 questions, 1 hour time
- Intermediate exam, if moodle-based
 - correct 0.50, skipped 0.00, wrong 0.00
 - **score in the range [0, 12], threshold 6**
- Regular exam, if moodle-based
 - correct 0.50, skipped 0.00, wrong -0.25
 - **score in the range [-6, 12], threshold 6**
- Exams, if moodle-based: **BYOD** - Bring Your Own Device
- You **pass the course** if you reach the threshold for both the homeworks and the exam AND you get a **combined score** that is at least **18/30**

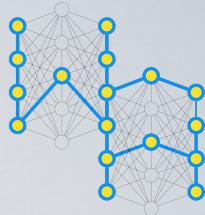


CAVEAT: If you get a score of 6/20 in the homeworks, you will need a 12/12 (perfect score) in the exam to get a final score

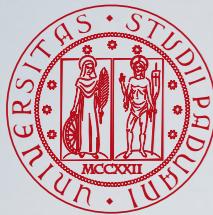
18/30



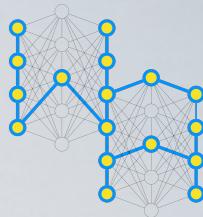
Exam Modalities: Overall Considerations



- **Every part of the exam** - namely homeworks and exam - must be **completed by** the winter session of the **academic year 2023/2024**, after which any intermediate results are discarded
- **No change** of submission/presentation/exam **deadlines**
- **Homeworks** must be done **during** the **semester**
 - no possibility to **jump in** at mid/end of the semester
 - once the **form** for setting up homework groups **closes on 15 March 2024**, it will be **no more** possible to **join** homework **projects**
 - no possibility to **repeat**/extend/integrate the **homeworks**
- When you deliver an exam, if you pass it, you will get the final score (exam + homeworks) registered and, as usual, you can decide whether to accept or reject it
 - if you reject it, you will have to repeat the exam (and the previous score is lost)



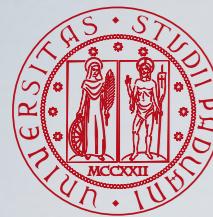
Exam Subscription in Uniweb



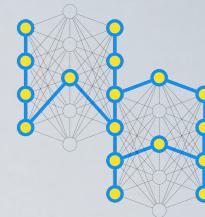
The screenshot shows the Uniweb interface for managing exam subscriptions. At the top, there's a red header bar with the university logo, the text 'UNIVERSITÀ DEGLI STUDI DI PADOVA', the word 'Uniweb', and a 'MENU' button. Below the header, the page title 'Visualizza appelli' is displayed. A breadcrumb navigation shows 'Appelli d'esame > Visualizza appelli'. The main content area has a title 'Appelli di: WEB APPLICATIONS [INP9087843]' and a link 'visualizza dettagli >'. It also shows the course 'COMPUTER ENGINEERING [IN2547] (LM)...'. A red banner at the top of the content area says 'Elenco appelli d'esame'. Below this, there are two buttons: 'Nuova prova finale' and 'Nuova prova parziale'. To the right, there are buttons for 'Visualizza' and 'recenti'. A dropdown menu is open, showing options like 'recenti', 'nuovi', 'scaduti', and 'esiti'. The main table lists four entries under 'Elenco appelli d'esame':

Descrizione	Data, ora e aula	Numero iscritti	Esiti	Verbali caricati	Azioni
Webapp - Exam and Registration	17/09/2024 10:00 AULA Ce	0	0	0	
Webapp - Exam and Registration	08/07/2024 14:30 AULA Ce	0	0	0	
Webapp - Exam and Registration	21/06/2024 09:00 Ee	0	0	0	
Webapp - Intermediate Exam	06/06/2024 14:30 AULA Ce	0	0	0	

- In Uniweb, you will find lists called “**Webapp - Exam and Registration**” which serve for both to the **attending the regular exam** and for the registration of the **final score** (homeworks + exam). You need to **subscribe**.
 - There are lists for the summer and autumn session. One more will be added for the winter session
- Only for the intermediate exam, there is the list “**Webapp - Intermediate Exam**”
 - When you subscribe to this list, immediately also subscribe to the **first “Webapp - Exam and Registration”** list, so that you will not forget it
 - In this way, you do not need to do anything more to get the final score recorded. As soon as I have a score from your homeworks and from the intermediate exam, I will sum them up and record your final score
 - The score you get here is not the final score for the Web Applications course but just for the intermediate exam
 - Uniweb always use the range [0, 30] for the score. The range is for the Intermediate Exams is [0, 12]. Even when you do a perfect exam, i.e. you get 12, Uniweb will tell you that you got 12 out of 30, which would be below the threshold in that range. Don’t Panic!!!! It is just that it is not possible to modify Uniweb but in the message you will receive, I will add a statement like “Score in the range [0, 12], threshold at 6”



Exam Simulation (Always On)



<https://esami.elearning.unipd.it/>



WEB APPLICATIONS 2023-2024

Question 1

Not yet
answered

[Flag
question](#)

How do you specify a paragraph box with top padding of 10 px, bottom padding of 20 px, left padding of 1 px, and right padding of 5px?

Select one:

- a. `p { padding: 5px 20px 1px 10px; }`
- b. `p { padding: 10px 5px 20px 1px; }`
- c. `p { padding: 10px 20px 1px 5px; }`
- d. `p { padding: 10px 1px 20px 5px; }`

Question 2

Not yet
answered

[Flag
question](#)

What did Vannevar Bush proposed?

Select one:

- a. The first browser
- b. The term hypertext
- c. The Memex
- d. The Xanadu project

Question 3

Not yet
answered

[Flag
question](#)

What does the Content-Encoding HTTP response header do?

Select one:

- a. It indicates how the response has been compressed
- b. It specifies response MIME media types which are acceptable
- c. It specifies the MIME media type of the associated resource
- d. It contains information about the software used by the origin server

Question 4

Not yet
answered

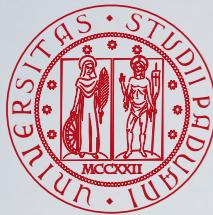
What does the HTTP POST method do?

Quiz navigation

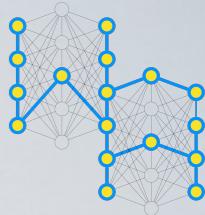
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24

[Finish attempt ...](#)

- You are expected to be familiar with the Moodle platform for exams
- Do not wait the day of the exam for enrolling in it and trying to use it
 - the day of the exam we will not deal with any issues you might have, arising from not having tried the exam platform well ahead
- Exams will be in the regular classroom: **BYOD** - Bring Your Own Device
 - you can use your own PC but also a tablet or a mobile phone are enough to do a Moodle quiz
 - practice ahead with the device you are going to use the day of the exam



Homeworks: The Group Project

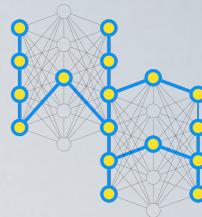
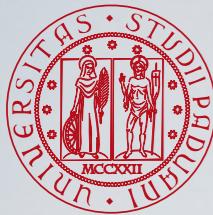


Option 1

- Build on your group project at the FDB course
- Create a Web application on the data layer developed during the course

Option 2

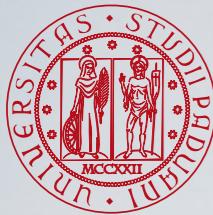
- Pickup whatever topic you like (and you are knowledgeable of)
- Create a Web application, e.g. as a mashup of existing services or developing your own data layer and building on top of it or a mix between the two



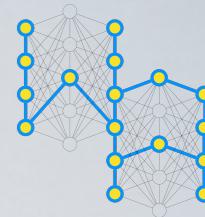
Homeworks: Considerations

- Based on the number of groups, students, topics of the projects, we may **merge** and/or **split groups** in order to ensure a smooth running of the activities. You will be **notified** about the **final composition** of each **group**.
- Once groups are finalized, each **group** will be assigned a **git repository** on Bitbucket (<https://bitbucket.org/>)
 - Each group member will have write access rights to the repository
 - You will get an **invitation** to the repository to the **email** address **you will provide**. If you do not accept the invitation, it **expires**. You need to **check** your **email** for this.
- Templates are provided for the homework reports. Use of **LaTeX** is **mandatory**.
- All the **group members** are expected to **equally contribute** to the homework
 - **Section** in the homework where to **detail** the **contribution** of each member
 - **Regularly commit** to the group repository (**it will be checked**)
 - Group members have to be **reactive** in responding to **emails** of other members, accepting invitation to git repository, ...
- 

Lack of active and substantial **contribution** to homeworks corresponds to **withdrawing** from the course
- The git repository must contain a **separate folder** (**hw1**, **hw2**) for each homework where, in appropriate sub-folders:
 - Homework 1: report (**latex source files + PDF**) + **source code** of the project
 - Homework 2: slides (**PDF** and/or **ppt** and/or **key**) + **source code** of the project
- **Source code** must correctly compile, generate documentation, deploy and execute



Homework 1 Template



800¹²²²⁻²⁰²²
ANNI



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



Web Applications A.Y. 2023-2024

Homework 1 – Server-side Design and Development

Master Degree in Computer Engineering

Master Degree in Cybersecurity

Master Degree in ICT for Internet and Multimedia

Deadline: 29 April, 2024

ACME		
Last Name	First Name	Badge Number
Doe	Jane	123456
Doe	John	123456
Doe	Jane	123456
Doe	John	123456
Doe	Jane	123456
Doe	John	123456

All the group
members must
be listed

1 Objectives

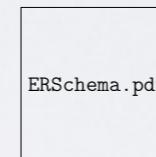
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2 Main Functionalities

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3 Data Logic Layer

3.1 Entity-Relationship Schema

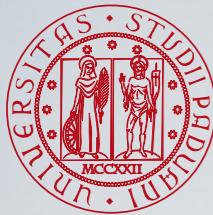


ERSchema.pdf

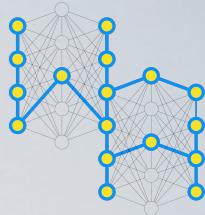
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3.2 Other Information

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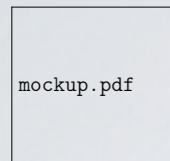
Homework 1 Template



4 Presentation Logic Layer

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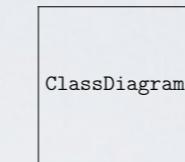
4.1 A page



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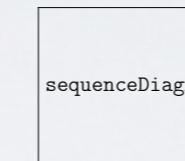
5 Business Logic Layer

5.1 Class Diagram



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5.2 Sequence Diagram



5.3 REST API Summary

URI	Method	Description	Filter
What is the URI?	What HTTP method uses?	Describe briefly the result of calling the URI	is it behind a filter?

Table 2: Describe in this table your REST API

5.4 REST Error Codes

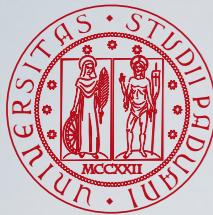
Error Code	HTTP Status Code	Description
Error Code Identifier	Corresponding HTTP Status Code	Description of the error

Table 3: Describe in this table your REST API

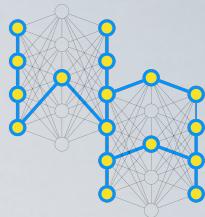
5.5 REST API Details

A resource

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Homework 1 Template



- URL: the URL to retrieve it
- Method: Method to retrieve it
- URL Parameters:
- Data Parameters:
- Success Response:
- Error Response:

6 Group Members Contribution

Jane Doe Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

John Doe Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Jane Doe Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

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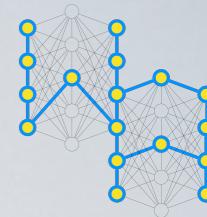
The role and contributions of each group member must be clearly explained and indicated

All the authors of the report are signing this declaration and are responsible for it

Stated contributions must match the git commit history by each member



The CRANE Application



<https://crane.dei.unipd.it/>



The screenshot shows the CRANE application's landing page. At the top, there is a banner featuring three smiling students (two boys and one girl) in a classroom setting. The CRANE logo and tagline "Course pRoject mANagEment" are displayed above the banner. Below the banner, a red header bar contains the question "Who is CRANE for?". The main content area is divided into two sections: "STUDENTS" on the left and "PROFESSORS" on the right. Each section contains a brief description of the platform's features for that user group.

CRANE
Course pRoject mANagEment

CRANE is a platform where students can join courses, create groups, and collaboratively work on their homeworks

[LOGIN](#) [SIGN UP](#)

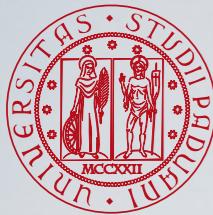
Who is CRANE for?

STUDENTS

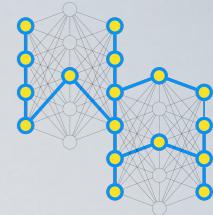
Students can track projects and homeworks for each course. They can form student groups and submit their work. Additionally, they can assess their colleagues' performance and view not only the grades and comments received on each homework but also the final score.

PROFESSORS

Professors will be able to track individual student and group activities, organize the assigned homework for the courses, and publish each student's final score calibrated based on individual homework assignments and peer evaluations.

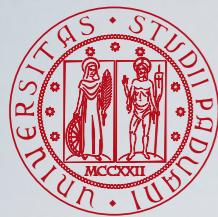


The CRANE Application

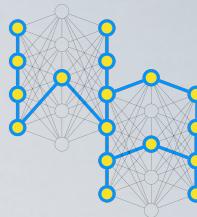


<https://crane.dei.unipd.it/>

- The CRANE (Course pRojects mANagEment) application is used to manage homeworks, groups projects, etc.
- Steps and deadlines
 - Individual registration in CRANE: by **8 March 2024**
 - Homework group creation: by **15 March 2024**
 - Homework correction, comments, and score will be accessible through CRANE and email to each group member
 - Student self-assessment: by **14 June 2024**



CRANE: Individual Registration, by 8 March 2024



Double check to enter a valid email address

- The email address will be used to add you to homework groups, to send you homework scores, to invite you to the git repository (bitbucket) of your group, ...
- Regularly and proactively check the email address you provide here



Badge number not required, but insert it if available



Don't lose your password, don't share your password, don't use passwords you already used for other important things!

CRANE
Signup

Email *
Please, add your @studenti.unipd.it email

Name *

Surname *

Badge
optional field: you can update it later on if you have not a badge yet

Password *
8 characters
1 upper case letter
1 special character
1 number

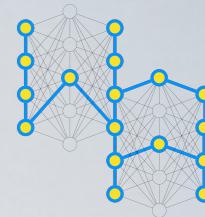
Insert password again*

SIGN UP

[Already have an account? Log in](#)



CRANE: Individual Registration, by 8 March 2024



Double check to enter a **valid email**
address

- The emails, homework scores, to (bitbucket)
- Regularly address your



Badge number if available



Don't lose
your password, **don't use** passwords you
already used for other **important things!**

My Courses

Here you can subscribe to new courses and access those you are currently enrolled into

ADD A NEW COURSE

You can choose courses of the **current** academic year.

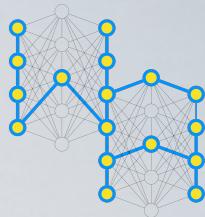
Insert your Master Degree

Search for a Course

SUBSCRIBE



CRANE: Individual Registration, by 8 March 2024



Double check to enter a valid email

CRANE

COURSES



My Courses

Here you can subscribe to new courses and access those you are currently enrolled into

[ADD A NEW COURSE](#)

2023-2024

[Search Engines 2023/24](#)

Group update and creation: [OPEN](#)

You can join and update your group until: 2024-03-12

CFU: **6, 9**

status: **enrolled**

Alias:

- Information Retrieval 2023/24
- Reperimento dell'Informazione 2023/24

[Foundations of Databases 2023/24](#)

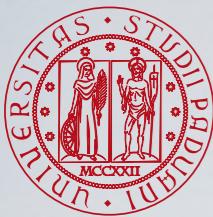
Group update and creation: [CLOSED](#)

You can join and update your group until: 2023-10-20

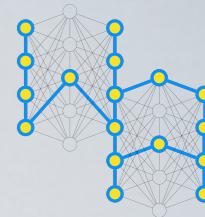
CFU: **6**

status: **enrolled**

your password, **don't use** passwords you
already used for other **important things!**



CRANE: Homework Group Creation, by 15 March 2024



An **acronym** (<https://en.wikipedia.org/wiki/Acronym>) is a **short sequence** of letters **without spaces**.

Do not use fancy cases: just **upper case**.

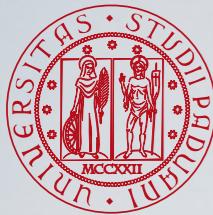
We will use the acronym (lower case) as **name** of the git **repository** of the group



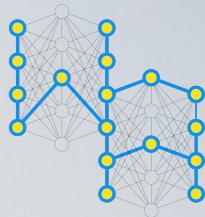
Only one group member must create the group for all her/his teammates by inserting the **emails** they **used to register**



Provide a **proper description** for your group project, so that we can decide if it is ok or it should be changed/modified



CRANE: Homework Group Creation, by 15 March 2024



Search Engines 2023/24

Group

Tasks

Info

Don't have a group yet? [JOIN A GROUP HERE](#)

New Group

To create a new group you have to set: (i) an **acronym**, a **description** and at least one member. To add new members to your group, provide the mail of your colleague and search her clicking the button **SEARCH MEMBER**. If the member is found, it will be added to the members list on the right. If you want to remove yourself from your current group, just go in the list of members and click on the **DELETE** button at the right of your email, then click on **UPDATE**.

Acronym*
SGRoup

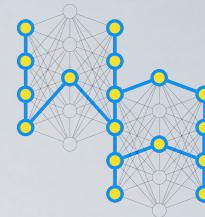
Description*
In the description you can write your goals

Add a New Member
stefano.marchesin@unipd.it

Members

ornella.irrera@example.com - Ornella Irrera - Computer Engineering
[DELETE](#)

[SEARCH MEMBER](#)



Search Engines 2023/24

[Group](#) [Tasks](#) [Info](#)

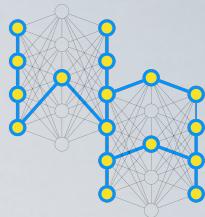
Status: enrolled
Professors: stefano.marchesin@unipd.it
Enrollment deadline: 2023-10-20
Group creation and update deadline: 2023-10-22

Group: FirstGroup
Date of group creation: 2023-10-22
Date of group modification: 2023-10-22
Total tasks: 5
Submitted tasks: 2
Total score: 38.00

[UNSUBSCRIBE TO THIS COURSE](#)



CRANE: Homework Group Creation, by 15 March 2024



Search Engines 23/24

Group Tasks Info

CREATE A GROUP HERE

14 groups found

CoP

6 members

Main purpose of the database project is to create and manage best experiences for people who reside in city of Padua. Experiences are events (which includes food and beverage testing, movie screening, cultural and social festivals etc.), food and beverage reviews and suggestions from both daily users and restaurant/pub/etc. owners, and announcements of the events that are organized by the students.

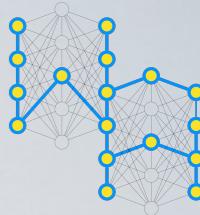
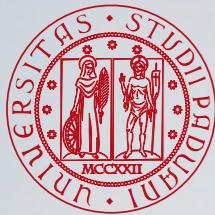
REQUEST TO JOIN

FlyTickets

6 members

flight ticket sales system, in this system passengers will be able to purchase flight tickets from different companies.

REQUEST TO JOIN



Once Groups Are Finalized: Git Repository



The **invitation** for the git repository (once groups are finalized) will be **sent** to the **email** address you entered in **CRANE**



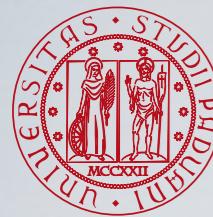
You need to **check** this **email** address, otherwise the **invitation** will **expire** and you will **not** have **access** to the **repository**.

This means **no contribution** to the homeworks which, in turn, means **withdrawning** from the course.

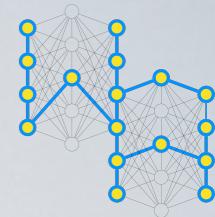
It is **your duty** to ensure you have access to your group repository and to be **proactive** in this. If you do not receive the invitation (once groups are finalized) or there are any other issues, get in contact with us as soon as possible.



Double check to enter a **valid email** address, otherwise the invitation will never be delivered



CRANE: Student Homepage



Search Engines 2023/24

Group Tasks Info

SORT TASKS FILTER TASKS

OPEN TASKS FOR SUBMISSION

CLOSED TASKS

Mandatory Group Closed Complete

Deadline: 2023-12-16

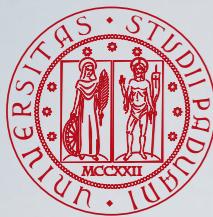
Physical Design and Tuning

Range: 0 - 6

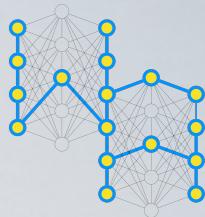
Based on the relational schema, build and populate the database in PostgreSQL, then perform some queries of interest on it.

Date of submission: 2023-12-16T07:52:04.621Z

Attachment: [METATRON \(6\).PDF](#)



CRANE: Self Assessment of Contribution, by 9 June 2023



Search Engines 23/24

Group Tasks Info

FirstGroup

Evaluate: anna.rossi@unipd.it

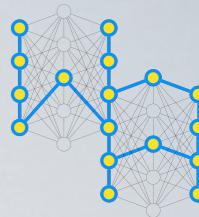
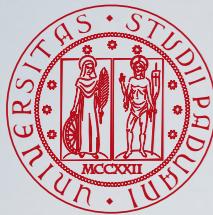
Please, provide a score from 1 to 5. If the score is lower than 4, you must provide a comment.

★★★★★

Comment
Great job!

CANCEL CONFIRM

- Each group member will **assess** the contribution to the homework of her/his **teammates**
 - “Evaluate your teammate” button in the student homepage
- The purpose of this assessment is to **calibrate the overall score** assigned to a group for the homeworks into **individual scores** for each group member, **reflecting the actual contribution to the work**, as perceived by all the other group members
- Each member scores each other teammate on a scale **1 (worst) to 5 (best)**
 - You are suggested to **provide an explanation of the assigned** scores in the text box available below the scoring grid
- Be as **fair** as possible in assigning scores
- These scores will be kept **confidential** and not shared with students



Calibration

- For each group, we will compute the **quartiles of the scores assigned by all the group members**
 - Q1 is the range [0%, 25%]; Q2 is the range (25%, 50%); Q3 is the range (50%, 75%]; Q4 is the range (75%, 100%)
- The overall group score will be calibrated depending on the **quartile to which the average score of each member belongs to**
 - **Q1 (poor contribution): 70% of the overall group score**
 - **Q2 (limited contribution): 90% of the overall group score**
 - **Q3 (appropriate contribution): 100% of the overall group score**
 - **Q4 (significant contribution): 110% of the overall group score**
- Students **not filling in the form** by **14 June 2024** will get an **additional 10% penalization** on their individual score, computed as described above
 - Not filling in the form in due time is an indication of carelessness and lack of commitment

- If the overall group score is above the threshold, the individual score will be the maximum between the threshold and the calibrated score
 - In other terms, the **self assessment will not make someone's score under the threshold**, if the overall group score is above it
- Giving the same score to all the group members (minimum, maximum, ...), or too skewed distributions, will (almost) conflate all the quartiles into the same one
 - We will interpret this as Q3, i.e. we will leave the overall group score **unchanged**
- At the end of the process, you will receive an email containing the overall score of the homeworks and the your calibrated individual scores

#####

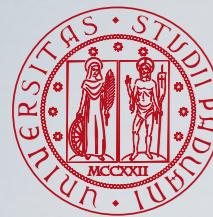
Group: MM

Overall score: 13

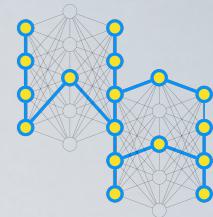
Your Calibrated individual score:

- Donald Duck: 12

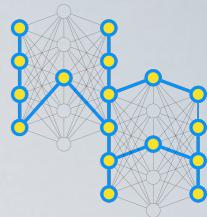
#####



CRANE: Scores Summary



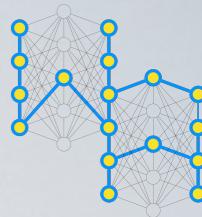
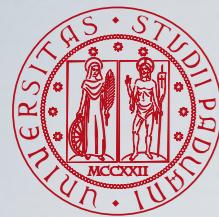
CRANE: Scores Summary						
Task Details		Score Details			Evaluation Details	
Name	Submission Date	Score	Comment	Attachment	Evaluation Date	Type
Filter... <input type="text"/>						
Calibrated Scores		21	No comment		2023-12-23	Individual Mandatory Computational
Conceptual and Logical Design	2023-11-24	6.5			2023-11-30	Group Mandatory
Physical Design and Tuning	2023-12-15	7			2023-12-21	Group Mandatory
Requirements Analysis	2023-10-27	7			2023-11-09	Group Mandatory
				Rows per page:	25 ▾	1-7 of 7 < 1 >



Schedule Summary: February-March 2024

February–March 2024

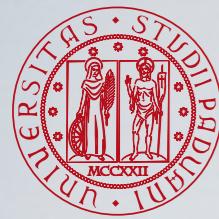
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
26	27	28	■ 14:30 Webapp (L01, 02)	■ 14:30 Webapp (L02, 04)		3
4	5	6	■ 14:30 Webapp (L03, 06)	DEADLINE Webapp - CRANE Individual Subscription Deadline ■ 14:30 Webapp (L04, 08)	9	10
11	12	13	■ 14:30 Webapp (L05, 10)	DEADLINE Webapp - CRANE HW Groups Deadline ■ 14:30 Webapp [suspended, EU review]	16	17
18	19	20	■ 14:30 Webapp Tutorship (T01, 02)	■ 14:30 Webapp (L06, 12)	23	24
25	26	27	■ 14:30 Webapp Tutorship (T02, 04)	■ 14:30 Webapp [suspended, ECIR 2024]	29	31
				No School	30	
				No School		



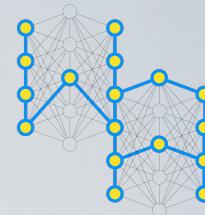
Schedule Summary: April 2024

April 2024

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1 ■ 14:30 Webapp Tutorship [suspended, easter Holiday] 	2	3	4 ■ 14:30 Webapp (L08, 16)	5	6
	8 ■ 14:30 Webapp Tutorship (T03, 06)	9	10	11 ■ 14:30 Webapp (L10, 22)	12	13
	15 ■ 14:30 Webapp Tutorship (T04, 08)	16	17	18 ■ 14:30 Webapp (L12, 24)	19	20
	22 ■ 14:30 Webapp Tutorship (T05, 10)	23	24	25 ■ 14:30 Webapp [suspended, Liberation Day] 	26 ■ 14:30 Webapp [suspended, holiday] 	27
29 Webapp - Homework 1 Deadline 	30 ■ 14:30 Webapp Tutorship [suspended, previous holidays] 	1	2	3	4	5

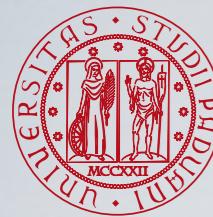


Schedule Summary: May 2024

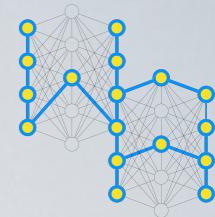


May 2024

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
29	30		1 ■ 14:30 Webapp (L14, 28) 	2 ■ 14:30 Webapp (L15, 30) EU Panel	3	4
6 ■ 14:30 Webapp Tutorship (T06, 12)	7	8 ■ 14:30 Webapp (L16, 32)	9	10 ■ 14:30 Webapp (L17, 34)	11	12
13 ■ 14:30 Webapp Tutorship (T07, 14)	14	15 ■ 14:30 Webapp (L18, 36)	16	17 ■ 14:30 Webapp (L19, 38)	18	19
20 ■ 14:30 Webapp Tutorship (T08, 16)	21	22 ■ 14:30 Webapp (L20, 40)	23	24 ■ 14:30 Webapp (L21, 42)	25	26
27 ■ 14:30 Webapp Tutorship (T09, 18)	28	29 ■ 14:30 Webapp (L22, 44)	30	31 ■ 14:30 Webapp (L23, 46)	1	2



Schedule Summary: June 2024



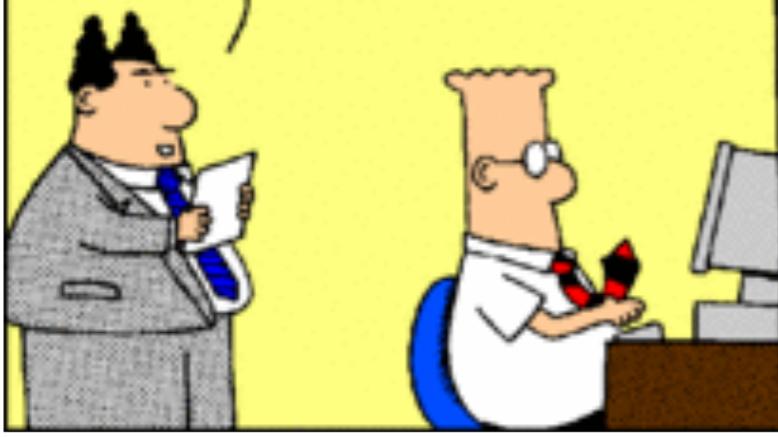
June 2024

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27	28	29	30	31	1	2
3 ■ 14:30 Webapp Tutorship (T10, 20)	4	5 ■ 14:30 Webapp (L24, 48) 	6 ■ Webapp – Homework 2 Deadline 	7	8	9
10 ■ Webapp – Presentations 	11	12	13	14 ■ Webapp – CRANE Self-Assessment Deadline 	15	16
17	18	19	20 ■ 09:00 Webapp Exam/Registration – 1st	21	22	23
24	25	26	27	28	29	30

You will be possibly done with Web Applications 😊

questions?

I PUT TOGETHER A
TIME LINE FOR YOUR
PROJECT.



I STARTED BY REASONING
THAT ANYTHING I DON'T
UNDERSTAND IS EASY
TO DO.

E-Mail: SCOTTADAMS@AOL.COM

S. Adams

PHASE ONE: DESIGN A
CLIENT-SERVER ARCHITEC-
TURE FOR OUR WORLD-
WIDE OPERATIONS.
TIME: SIX MINUTES.

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