



Invoice management application

Subject L3AX – Group L3AXI

Supervisor : M. Dandan Alaa

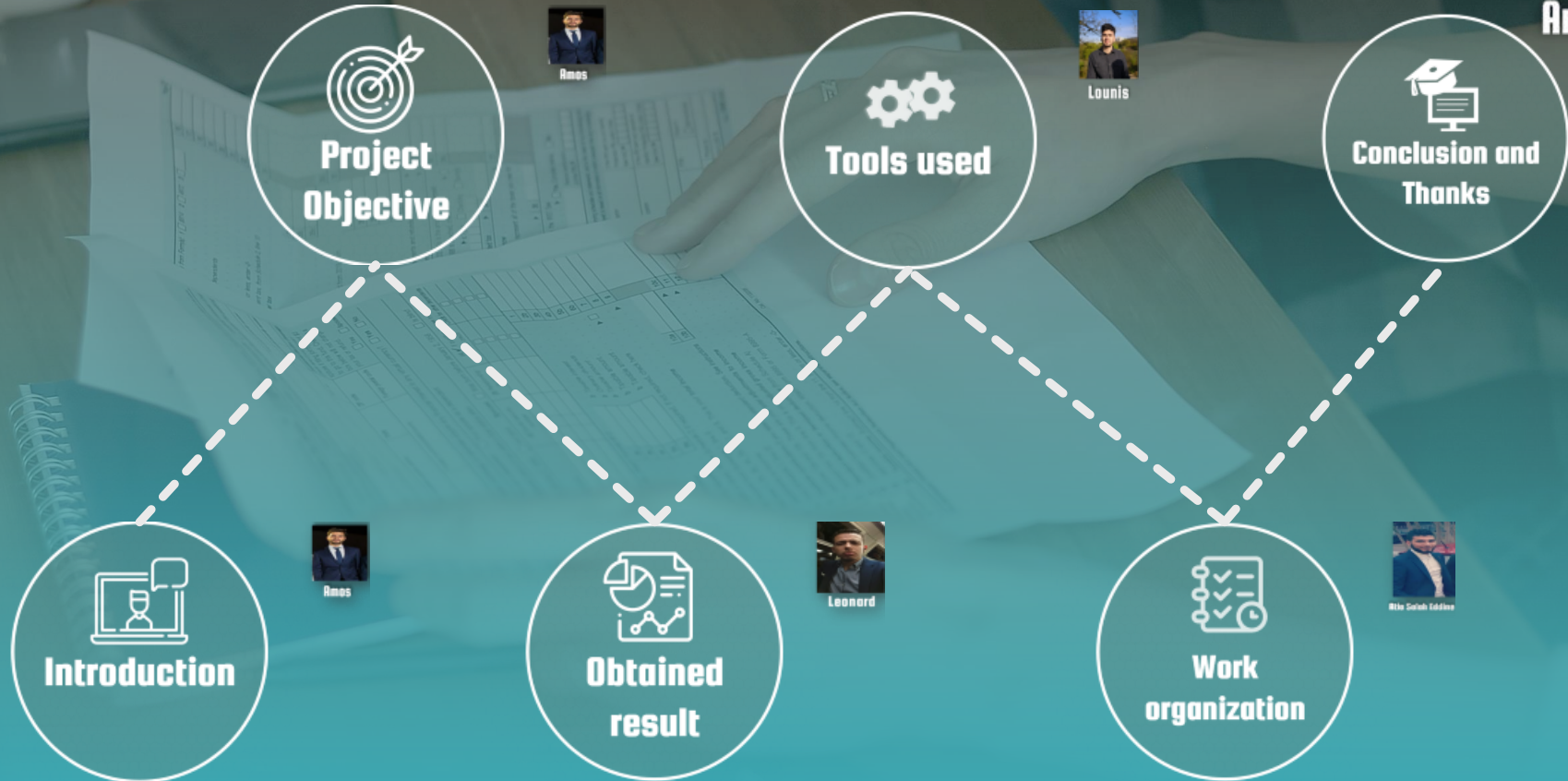


Amos

**ATIA Salah Eddine
NAMOLARU Leonard
SAGHROUN Amos
BOULDA Lounis**

Tutored Project 2020/2021

Plan





Amos



Introduction



Amos

Tutored Projects



A must for every third-year student at our university



Opportunity to be exposed to new technologies



Project preparation takes 12 weeks



Good preparation for work in the industry



Introduction

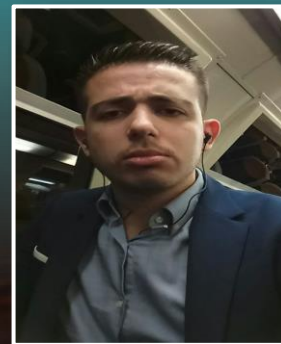


Atia Salah Eddine

Project Manager from 30/03



Saghrun Amos



Namolaru Leonard

Project Manager 25/01 – 30/03



Amos



Bouldja Lounis

The team



Introduction



Amos

Invoices



Past

invoice by hand
or by typing in
Excel or Word.



Now

Invoicing software was
designed to manage the
invoicing and accounting of a
business



Lower the costs



Limitation of fraud



Limitation of errors



Time reduction



Project Objective



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Project Objective



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any company can
generate its invoices



Allow a self-
employed person to
invoice at his own
level



Complete and
Functional Billing
Software



Modular and
Customizable
Software



Data security and
protection
(Customer Info,
Suppliers, Sale
Price)



**Obtained
result**



Leonard



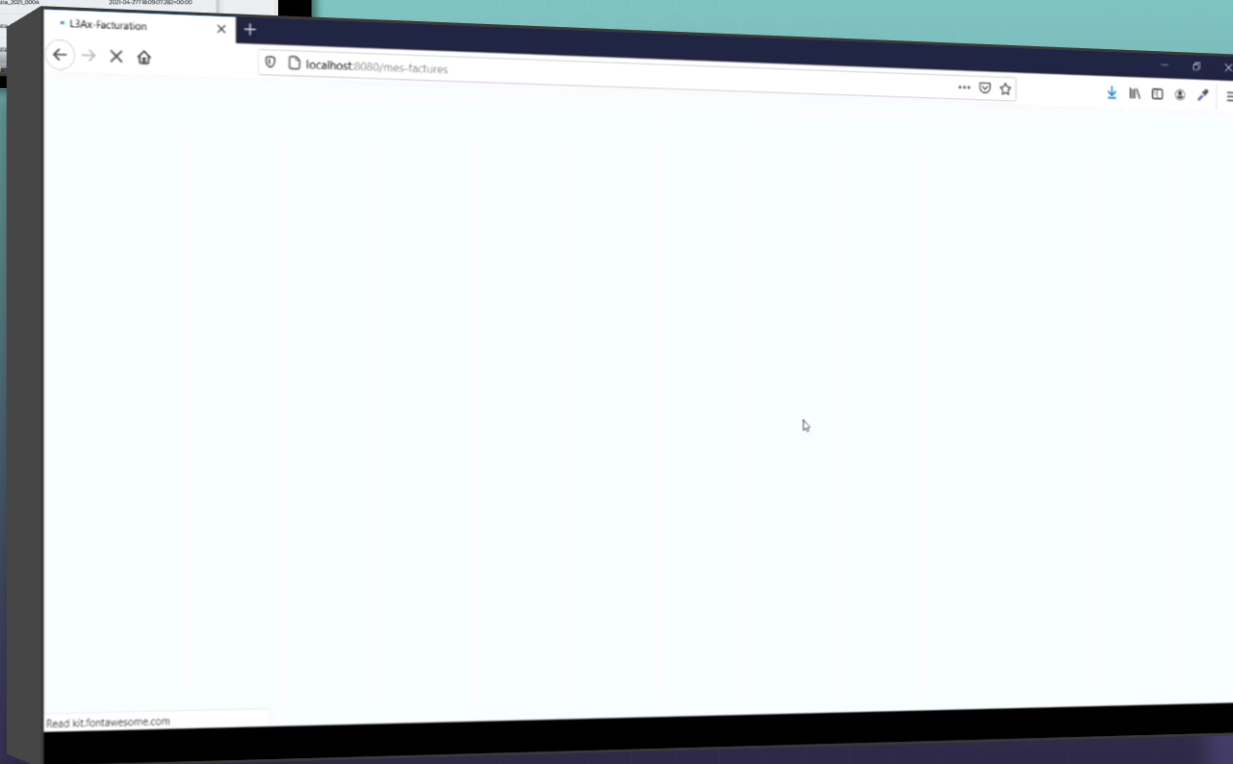
Obtained result

Video: The demo of the app



Leonard

Montant	Etat	N° DE FACTURE	DATE
32000 €	payé	L3AT_Ata_2021.0001	2021-04-27T17:55:53.777+00:00
10099 €	payé	L3AT_Ata_2021.0002	2021-04-27T18:02:44.698+00:00
25900 €	payé	L3AT_Ata_2021.0003	2021-04-27T18:06:52.377+00:00
37900 €	payé	L3AT_Ata_2021.0004	2021-04-27T18:09:07.282+00:00
9540 €	payé	L3AT_Ata_2021.0005	
37900 €	payé	L3AT_Ata_2021.0006	





Obtained result



Leonard

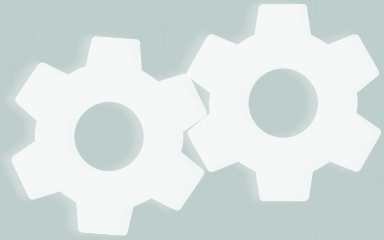
The advantage of our app over other apps

The owner of the company installs it on his personal server and thus ensures the confidentiality of the data.





Lounis



Tools used



Tools used



Lounis



Front end



ReactJS

React is a free JavaScript library developed by Facebook since 2013. The main purpose of this library is to facilitate the creation of a single-page web application, by creating state-dependent components and generating an HTML page with each state change



Back end



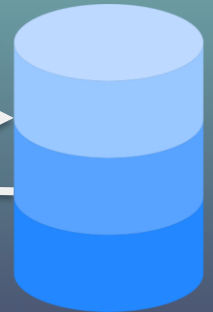
Spring boot

Spring is an open-source framework for building and defining the infrastructure of a Java application, which it facilitates development and testing, and to code REST APIs that other programs use.

Requests
HTTP

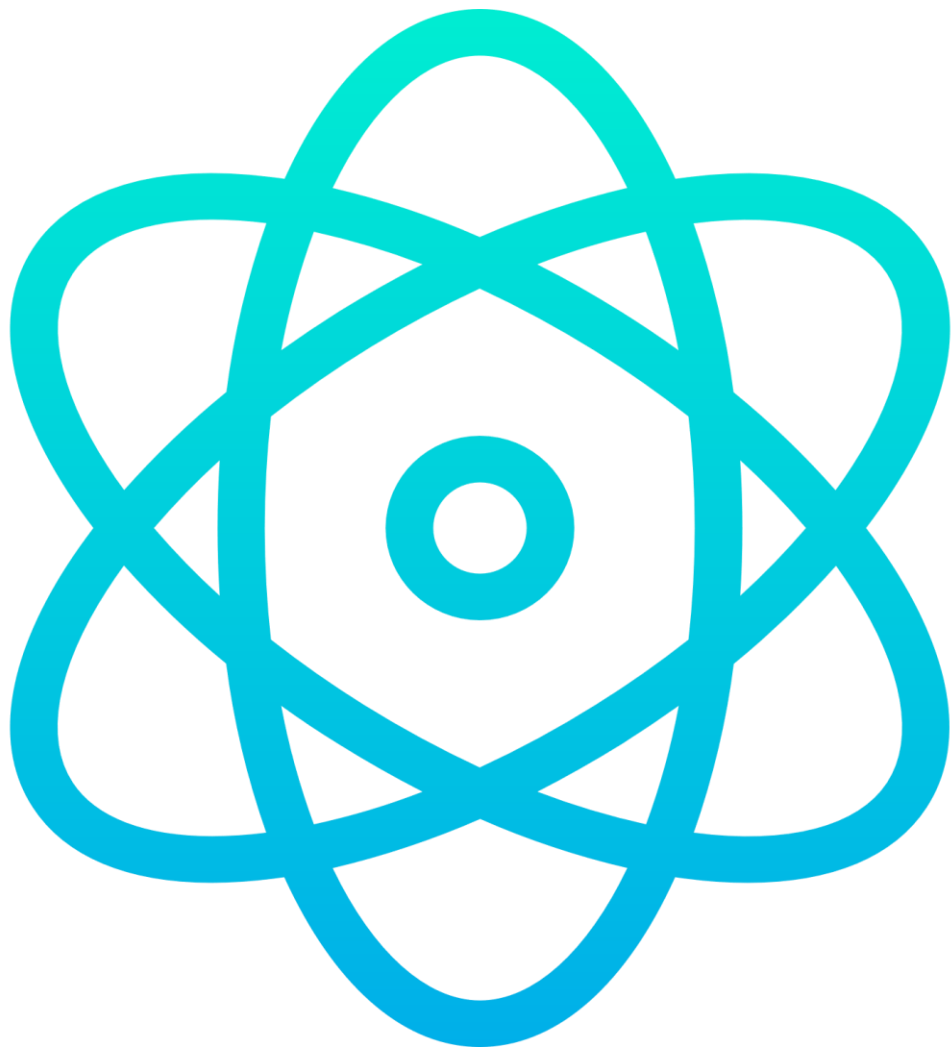


PostgreSQL



Database

JPA





Tools used



Lounis
simplicity

The component-based approach, well-defined lifecycle, and the use of simple JavaScript make React very easy to learn.

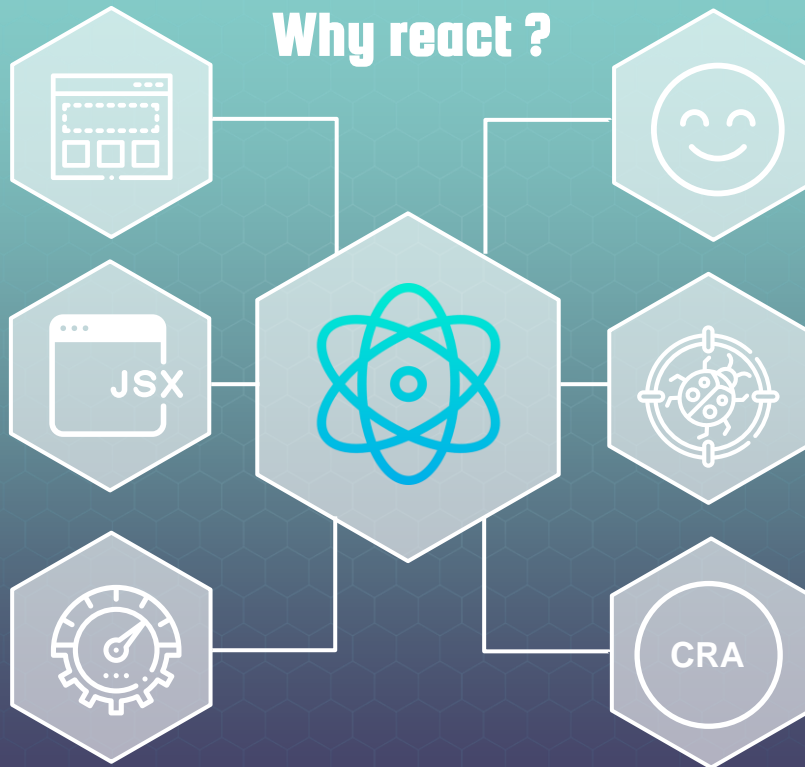
debugging

React dev Tools makes it easy to write and search for bugs on a React app

Create react app

Setting up a development environment that allows you to use the latest versions of JS

Why react ?



Components

Creating React components allows the user interface to be divided into independent and reusable elements

JSX

JSX is a simple JavaScript that uses HTML tag syntax to create react components.

performance

uses smart techniques to minimize the number of expensive operations on the DOM

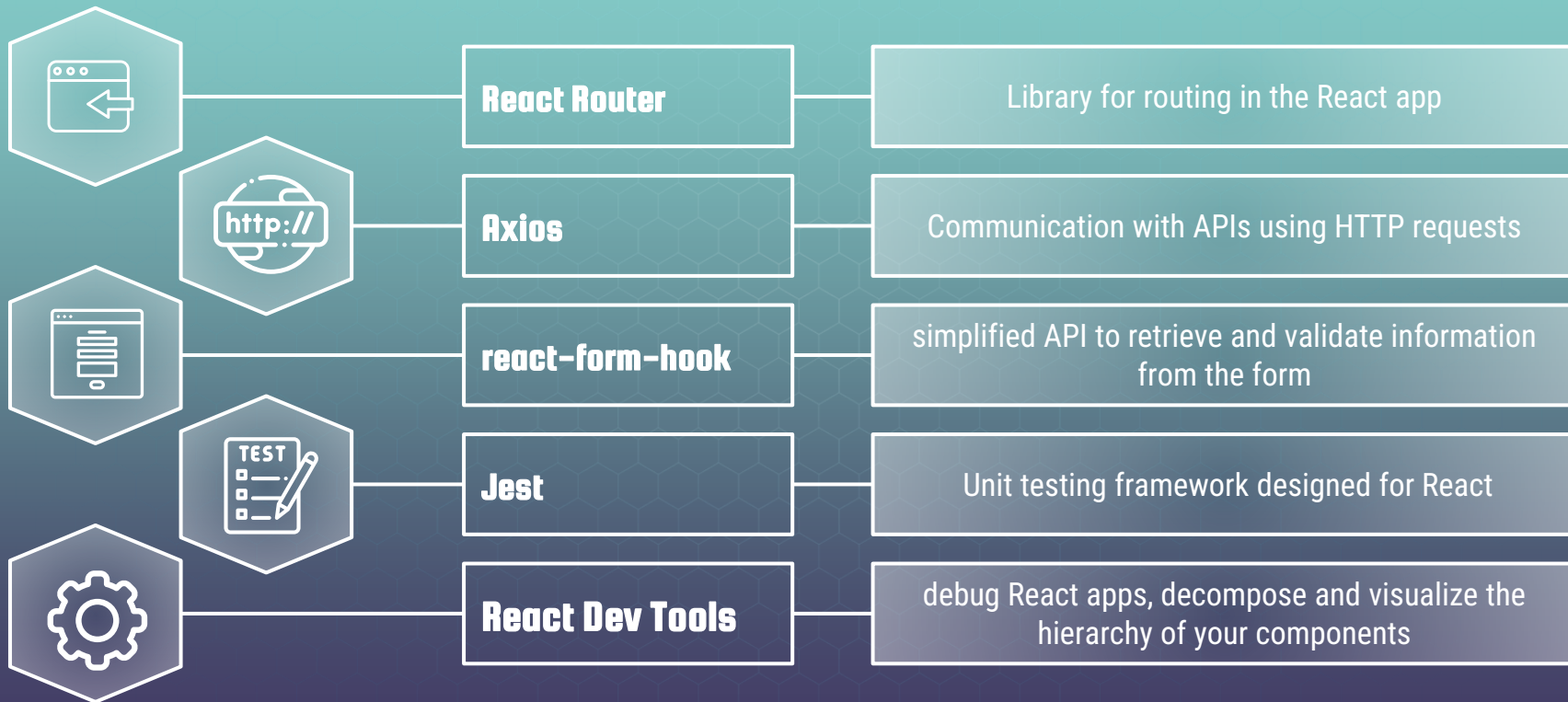


Tools used



Lounis

Front end: Modules, libraries, tools ...





spring®



Tools used



Lounis

Auto configuration

Automatically generates many necessary background operations with Spring Boot annotation

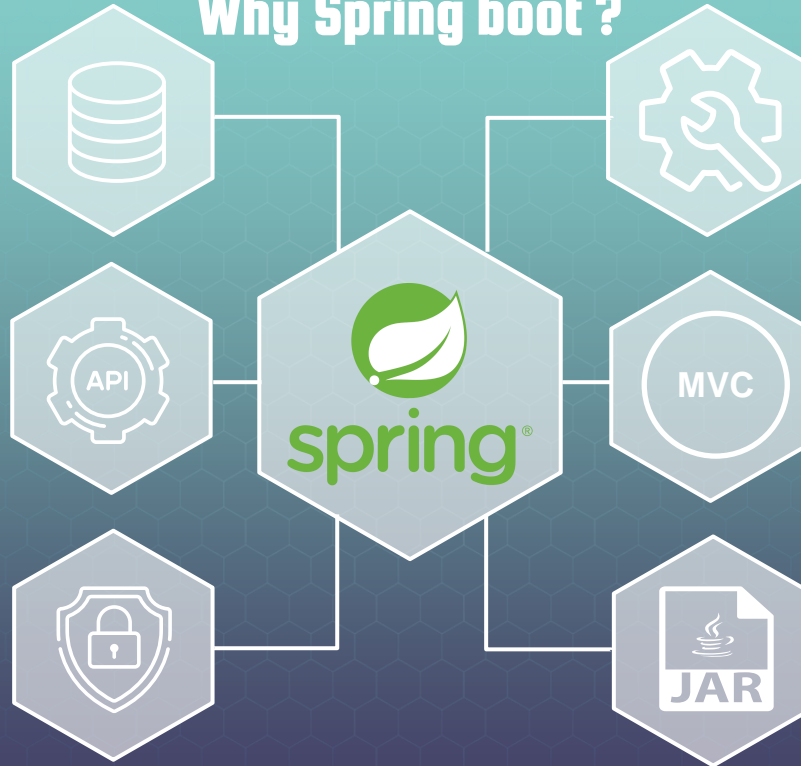
MVC

Architecture type MVC, allows to develop flexible web applications.

Déploiement

Deployed the site within Tomcat's Spring boot, and the ability to generate the project in WAR and JAR.

Why Spring boot ?



Spring data JPA

Persist data in SQL stores with Java Persistence API using Spring Data and Hibernate.

Spring Web

Creates a REST API, and CRUD actions (create, read, edit, delete).

Spring Security

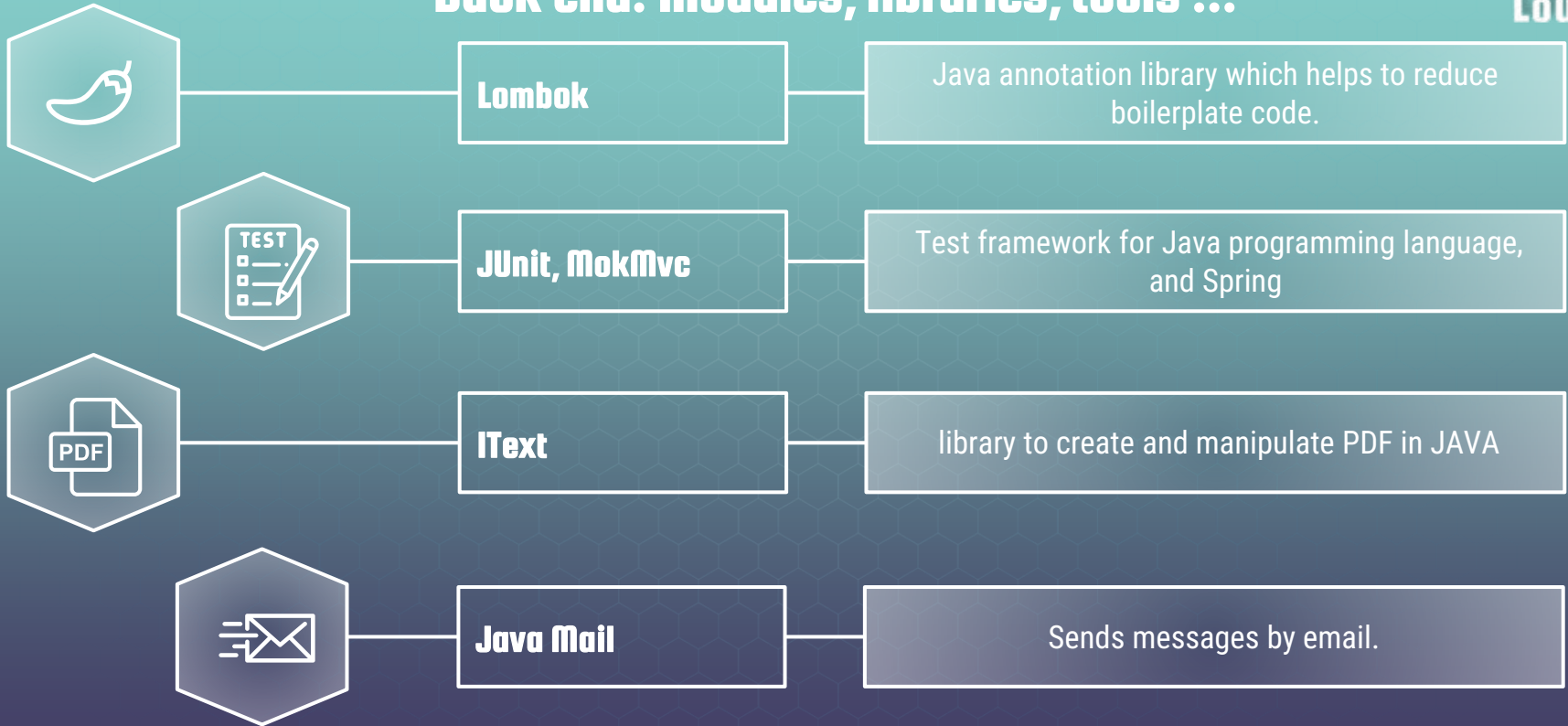
Highly customizable authentication and access-control framework for Spring applications.

Tools used



Lounis

Back end: Modules, libraries, tools ...





Work organization



Atia Salah Eddine



Work organization

 Specifications




Week 01-03

- ✓ Setting goals
- ✓ Needs Analysis
- ✓ specification

✓ conception

Week 04



 The recipe book
Detailed design




Week 05-10

✓ development

✓ integration

Week 11



 The test plan
Documentation
source code

 Slides



Semaine 12

✓ Pre-presentation
of the project



Atia Salah Eddine

Project Manager

- To prepare each meeting
- Facilitate meetings
- Make the link with the supervisor between two meetings

Every week

- A 45-minute meeting (every Monday)
- Writing a report.
- Meeting between students (Sunday).

Presentation of the project

- Duration: 15 minutes + 5 to 10 minutes of questions
- 11 to 15 slides with sound





Conclusion and Thanks



Ario Salah Eddine

The background of the slide is a teal-tinted image of a crowd of graduates celebrating, with many black graduation caps being thrown into the air. The caps are scattered across the frame, some near the top and some lower down. The crowd of people is visible at the bottom, looking up and cheering.

Conclusion and Thanks



Atia Salah Eddine

- ❑ This project has been a very nice way to learn some new technologies (React, Spring boot, Emails.js...)
- ❑ We, the group members, had a very nice relationship during this project
- ❑ Thanks for giving us the opportunity to learn and gain experience
- ❑ Special thanks to Paris Descartes and Mr Dandan for all the directives that he gave us

