Project presentation
Ja~~va~~karta Enterprise Edition

JAKARTA EE

eFrei
PARIS
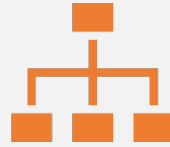Ecole d'ingénieurs du numérique

M1 SE – 19th November 2019
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The content of the presentation package

Structure

Architecture

Retrospective

Structure

Structure

WEB-INF

- CSS folder: contain stylesheet
- Views folder: contain JSPs
- Database_schema.sql: the structure of the database
- Glassfish-resources.xml: store information about JNDI for DB connection
- Web.xml: information for web server to use the controller

META-INF

- Persistence.xml: settings for persistence to use JNDI

Structure

Control

- Controller.java: the servlet which control the whole application

Exception

- MissingParameterException.java: an exception reporting missing parameters

Helpers

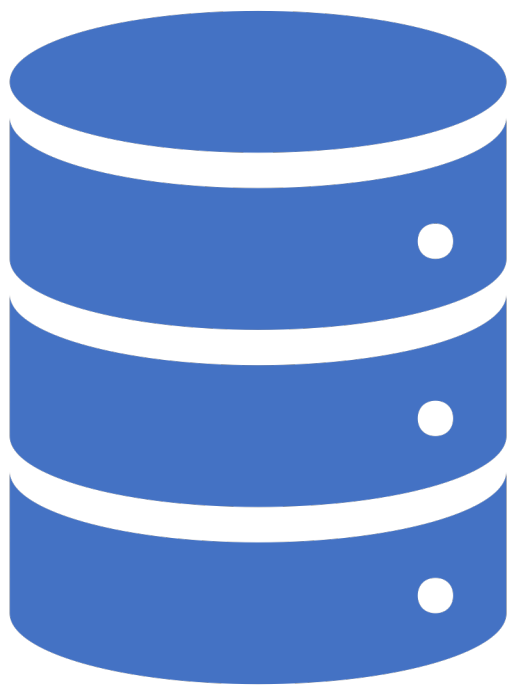- Constants.java: store all constants used by the program

Structure

Model

- Employee: the java bean for employees
- User: the java bean for user (credentials table in the DB)
- Log: the java bean for log (to log actions)

Tests + sessions beans for these classes

REST API

Architecture

Model-View-Controller

Model
- Composed of Java Beans and Session Beans

View
- Composed of JSPs

Controller
- Composed of the unique servlet

One more thing …

Extra: Log

Action

User

Date

IP

One more thing …

Extra: Hash password

🔒 Secure

👤 SHA1 algorithm

Infrastructure

- Database hosted in a dedicated server on Online.net (by Scaleway)

- Deployment on
  - AWS (Elastic Beanstalk) http://project-jee.eu-west-1.elasticbeanstalk.com/
  - Online.net (by Scaleway) http://jee.paul-henri.net
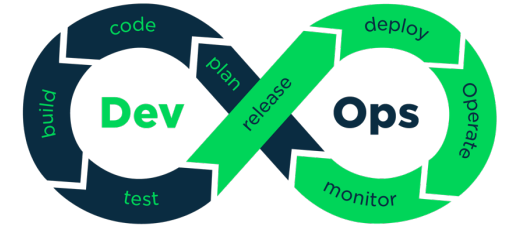

- Pipeline on Azure Devops platform
- GitHub

Retrospective

Retrospective

- Of course, practice JEE course
- Use Maven environment
- Use Java Persistence API
- Set up DevOps environment
- Setup basic REST API

- Setting up JPA
- Deploy in the cloud
- Tests
- JSON in REST API

Thank you for your attention