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Methodology Learning style



Project based

Students will code their projects in an agile way using incremental iterations instead of a waterfall approach using a constantly evolving Prioritized Product backlog from SCRUM.



Close monitoring

Our grading system considers the working code and the correct understanding of the project requirements to produce high code quality with low coupling, avoiding side effects.



Mentor support

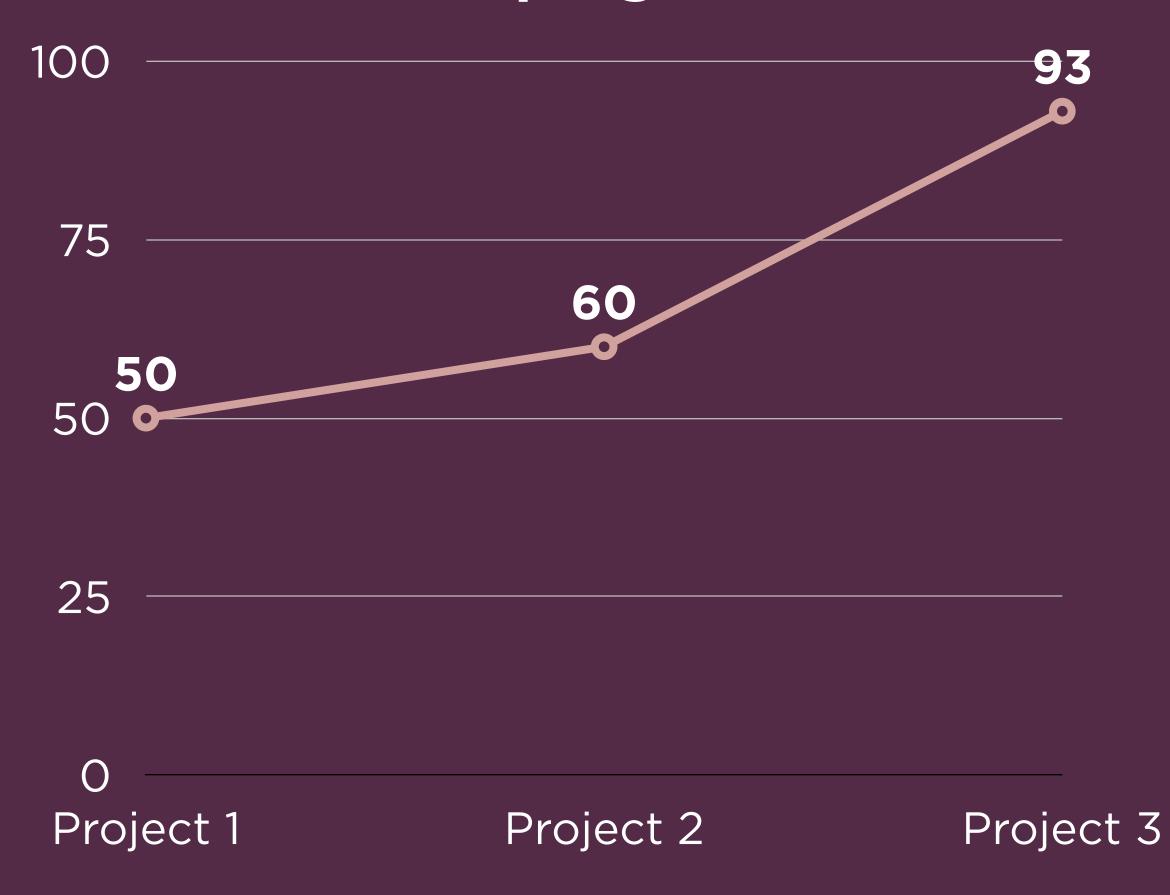
Students will have access to qualified staff that co-create the projects before the course starts to answer any students' doubts.

Close monitoring Keeping the quality up

Gradding criteria

Topic	Description
Planification	Understanding the project requirements and organize the project in a agile way.
Functionality	Making sure the app meets the required functionality.
Code quality	We grade the code quality based on criteria taken from the Clean Code book by Robert Martin.
Overall feedback	Extra feedback or tips that do not fit in the other categories.
Final score	From 0 to 100

Student progress chart

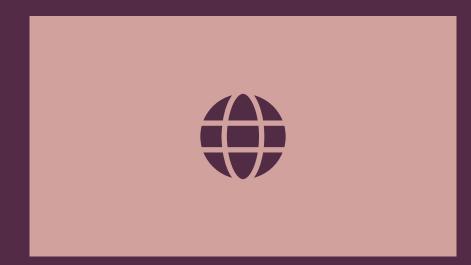


Course structure

What will be teached



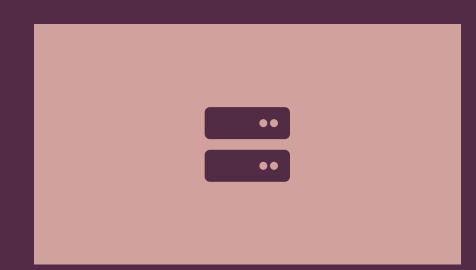
Course introduction



Full-stack development



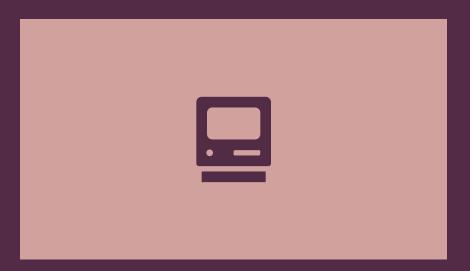
Java basics



Backend development



Java advanced



Large scale projects

Course structure

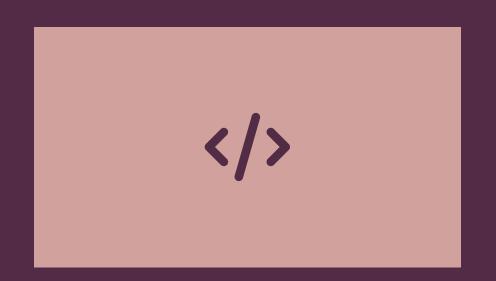
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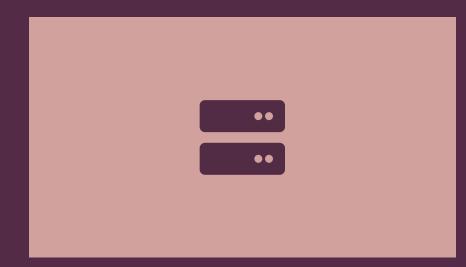
This module starts the whole course by giving the correct mentality to our candidates that projects succeed or fail before the first line of code is ever written.



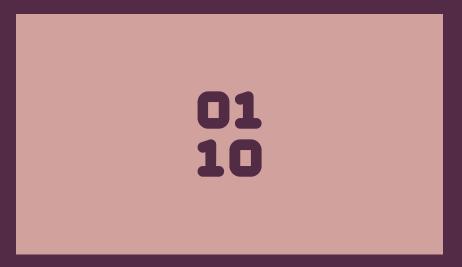
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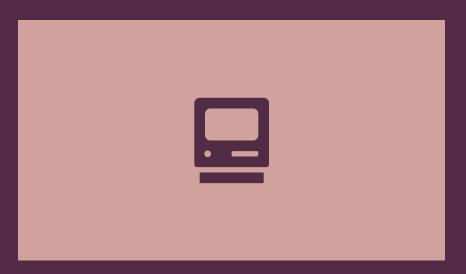
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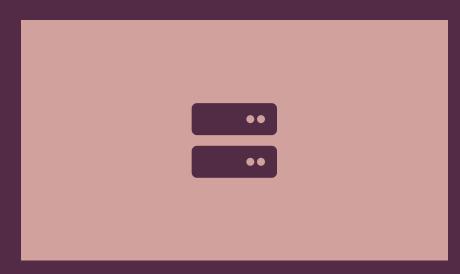
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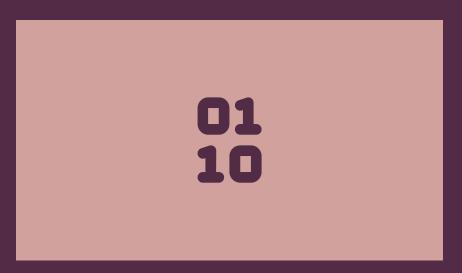
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Java basics

Teaches how to code using Java as the primary language of the course.



Backend development



Java advanced



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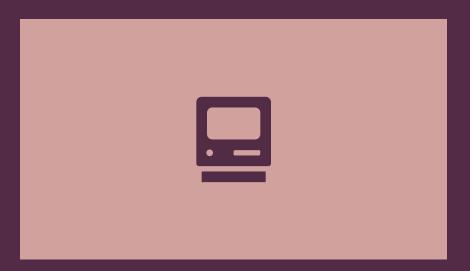
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Full-stack development



Backend development



Large scale projects

Course introduction

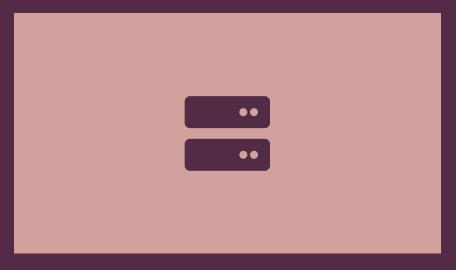
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In this part of the course, the students built graphical interfaces for the web by utilizing a backend created by our staff.

Java basics

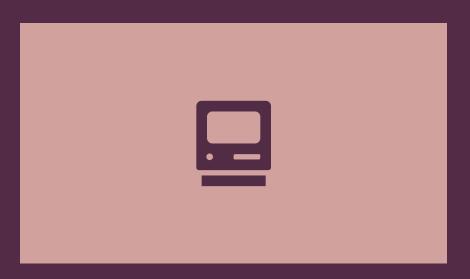
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Large scale projects

At this part of the course, the students combine their previous modules' knowledge to build a full-stack app while applying continuous integration.

Course structure Curricula details

Course introduction	Java basics	Java advanced	Full-stack development	Backend development	Large scale projects	
Requirement gathering	IDE (Intelli-J idea)	Good coding practices (3R's in software architecture)	Crash course in HTML, CSS and TypeScript Angular for creating UI while consuming REST API's.	Build REST API's with Spring boot	Dev ops	
Prioritized Product Backlog (SCRUM)	Syntax	Java SDK (how to use FileStream to manipulate files, etc)	Angular for creating UI	Database management using MySQL	Integration testing	
Bring ideas to life (UML diagrams, whiteboard discussions)	Object oriented principles	Design patterns (factory, MVC, etc)	Consume REST API's with Angular	Docker container	Security	
	Version control (Git)			Deploy to Amazon Web Services cloud		

Expected outcomesWhat students know after graduation

Topic	Outcome						
Course introduction	Understand the key to coding (software practices) Organize projects using Agile and SCRUM						
Java basics	Basic knowledge of Object- Oriented Programming Can read someone else's code						
Java advanced	Understanding of Object-Oriented Programming Can maintain someone else code						
Full-stack development	Can build basic interfaces in Angular with CSS templates Can consume APIs from a backend Can deploy code to a hosting provider						
Backend-development	Can create Restful APIs Can manage databases using SQL Can deploy code to the cloud						
Large scale applications	Can build an application from start to finish Understand DevOps and continuous integration Delivers apps with unit testing in the critical parts						

Project deliverable

Time estimates

Task name	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Recruitment	Q Do	ne before sumi	mer					
Pre-course				Summer				
Full-course					12	weeks		
Graduation & employment								

Summary Java Backend Couse



Project based



Six modules



Close monitoring



Twelve weeks



Mentor support



Summer pre-course