

Web Programming

Introduction

Agenda

- About Web & Technology
 - Web
 - Web Design / Programming
 - Web Designer / Programmer
- Course
 - Structure
 - Moderators
 - Goals
 - Requirements for participants
- Tools
 - Computer
 - Browser
 - Cloud
- Questions

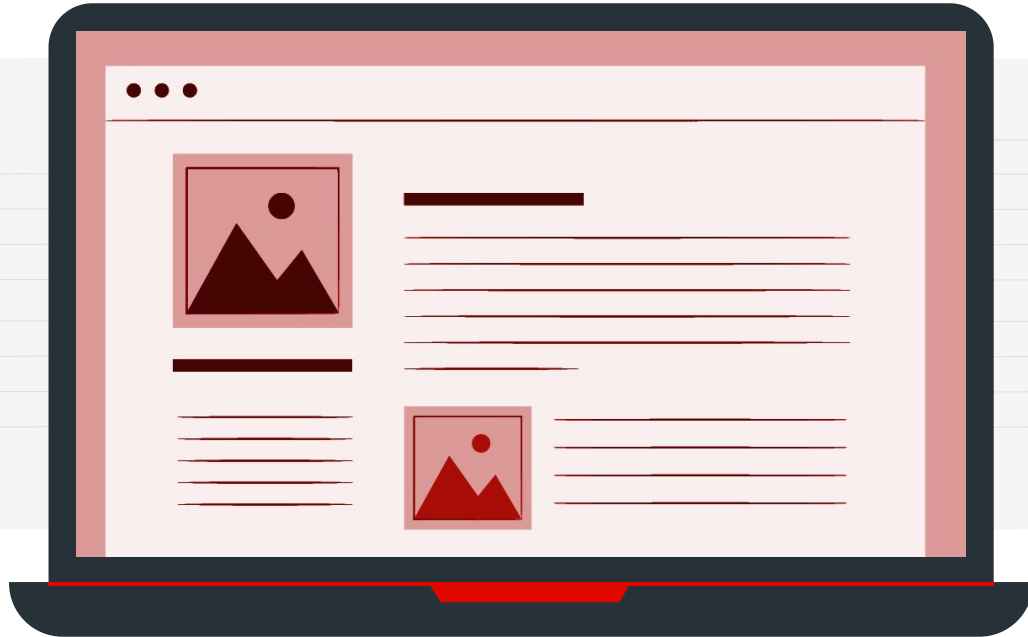
web

the infrastructure, data ocean, connected machines,

instant access, information hub, ...

Web Sites

During the entire course, we are going to learn how to become a web programmer and create great web applications.



Web

The story of Web, now and the future

- Computer
- Internet
- Network
- HTTP
- Browser wars
- Internet Giants
- HTML, CSS, ...
- Cloud, Virtualisation
- Data, ML, AI
- VR/AR

Web and Design/Programming

How are the websites created and delivered to end-user?

- Websites (applications) are created on the machines by programmers.
- Programmer uses tools and languages to create one.
- Created websites are uploaded to other central machines (server) in the internet (accessible for everyone on web hosting, application hosting, cloud).
- The end-user requests the web site/application over a browser.
- The website is downloaded upon the request to the user's machine (client).

Web Designer/Programmer

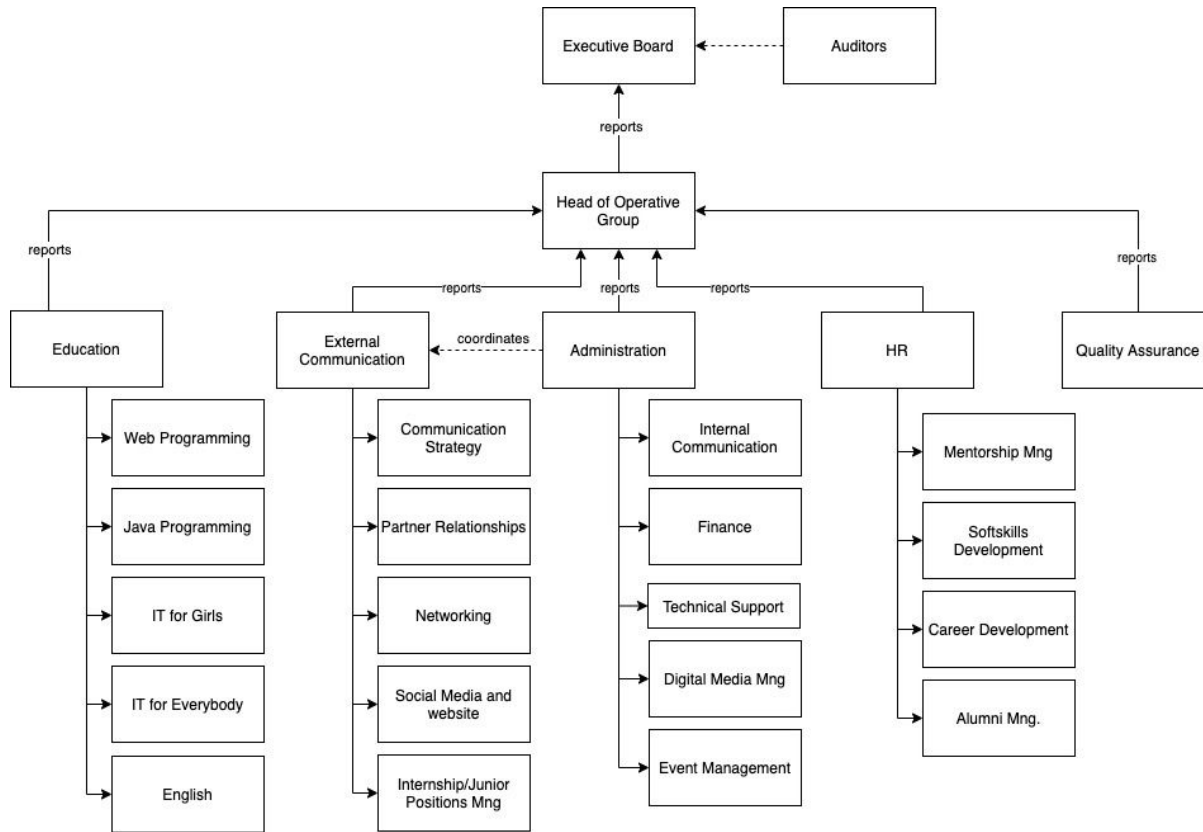
By whom are the programs
written?

A Programmer is able to

- use:
 - All kind of tools (to make easier to finish his job expeditiously)
 - Software Platforms
 - Programming languages
 - Codes from other programmers
 - Methodologies
- have know-how on
 - Network, Web
 - Computer internals
 - Protocols & standards
 - Technologies around the web
 - Proper Methodology in Analysis
 - Problem solving strategies
- can
 - communicate very well
 - document very well
 - Work accurately and clean
 - learn continuously

course

why, how, targets, mindset, eventual skillset, ...



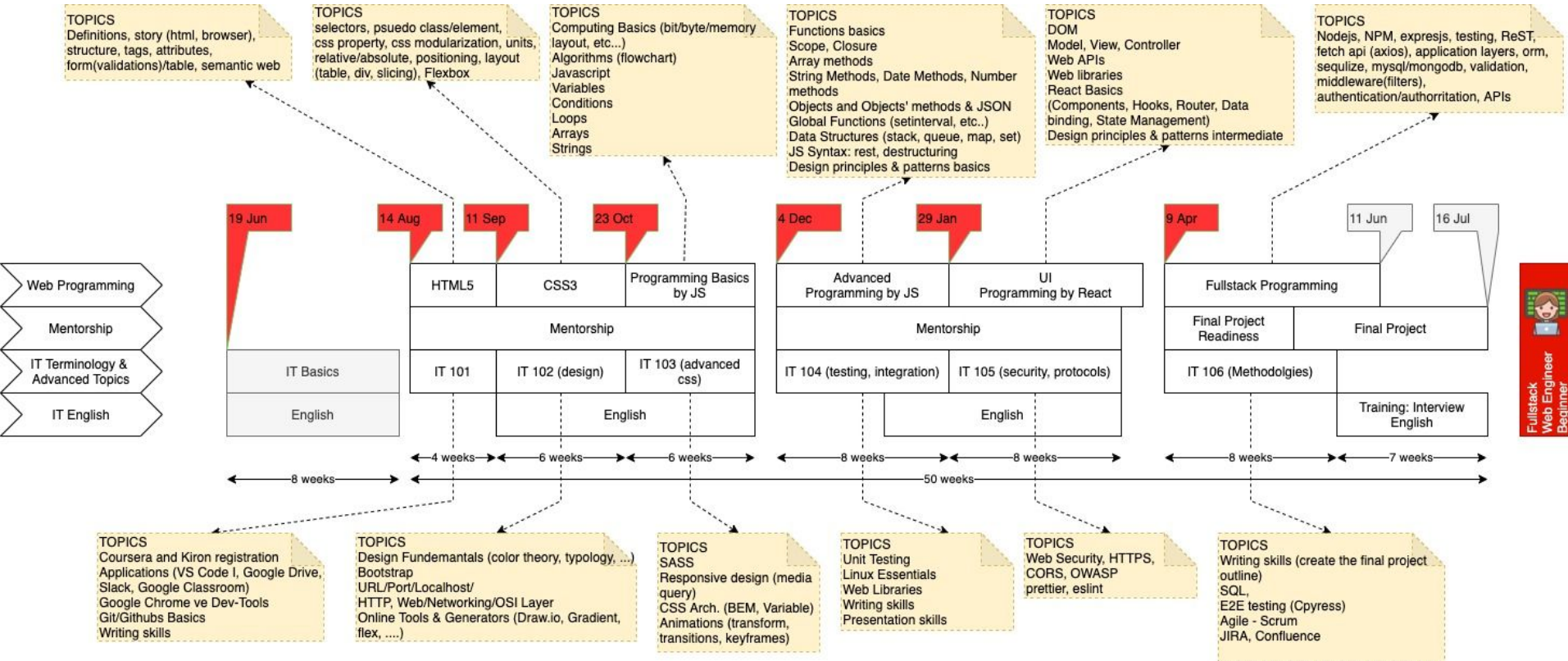
HiCoders Organisation

Course Goals

What are our goals?
What exactly do I have at
the end of this course?

- First big steps into the digital world and programming
- Web Application development (fullstack - frontend/backend) from 0 to 100
- Computer oriented thinking, learn how to solve the problems analytically
- Required soft skills
- Career prospects
 - Internship or other training
 - Junior Frontend developer
 - Junior Web Designer
 - Junior Fullstack Web Engineer
 - Junior Application Developer
 - -> Usability Engineering
 - -> Tester
 - Core skills for other job industry

Course Modules (and beyond)



Fullstack
Web Engineer
Beginner

Course Structure

How is the course structured?
Web Fundamentals, technology basics

- Lectures
 - Theory, Terminology, Practice
- Mentorship
 - Your personal coach
 - Ask questions in group, individually and asynchronously by using slack
 - The most important part of our education system
 - Be active in your mentorship group and try to build the group dynamic
- Weekly Cycle
 - Lecture Programming (saturdays at 08:00)
 - Code Reviews (saturdays at 21:00)
 - IT 10x (tuesdays, at 20:00)
 - Mentorship Hours (defined by each group)
 - Assignments (given on saturday)
 - Readings (researches)
 - Quizzes
 - Programming assignment
 - At least one delivery in a week (small & big)
 - Get help from mentors
- Certificates
 - Coursera (registration through Kiron.org)
 - Certificate from well-known universities
 - At least 10 certificates

Your effort

Lectures

Theory & Practice

TRAINING

25%

Mentorship

Learn from you mentor

SUPPORT

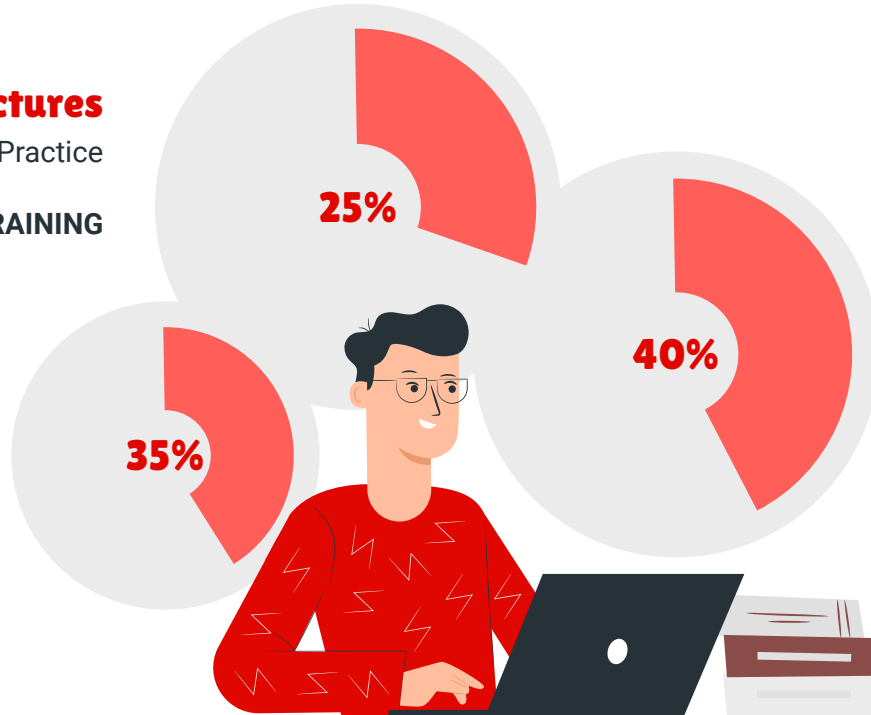
35%

40%

Self Study

Lead your IT career!
Quizzes, Exams,
Assignments,
Researches

PROGRESS



distribution of frontend fields

HTML

The ground level part of the web.

INFORMATION STRUCTURE

CSS

Design the given html structure for end-user.

PRESENTATION LAYER

10%

25%

65%

Javascript

Give the existing structure the ability to interact.

INTERACTION



distribution of backend fields

Database

The persistence layer.

INFORMATION
STRUCTURE

Frameworks

Use well known codes
from other coders.

FOUNDATION

15%

40%

45%

Application Programming

Core programming
abilities to solve
complex problems

BUSINESS DOMAIN



Course Trainers

Our experts

- **Mehmet Doğan**
 - Lead Software Architect at bbv Software Services AG
- **Mehmet Candemir**
 - Software Architect at ELCA AG
- **Cemil Doğan**
 - Software Engineer at Cyfex AG
- **Hüseyin Tekatli**
 - Software Engineer, IT Trainer
- **Mehmet Sekeroglu**
 - Software Engineer, IT Trainer
- **Bilal Said Cilesiz**
 - Software Engineer, IT Trainer
- **Ilyas Türkben**
 - Fullstack Engineer at Adobe
- **Can Yaver**
 - Senior Engineer at ServiceNow

Course Mentors

Mentor groups complement the practical understanding of the given education materials in every aspects.

- Group 1 -> Hüseyin Tekatli
- Group 2 -> Hüsniye Sekeroglu
- Group 3 -> Mehmet Sökmen
- Group 4 -> Durmus Ali Saymaz
- Group 5 -> Umut Aaslan
- Group 6 -> Hüseyin Sevindik + Mehmet Sekeroglu
- Group 7 -> Bilal Said Cilesiz + Umut Güngör
- Group 8 -> Erhan Kudretli + Oktay Copurlu
- Group 9 -> Ali Osman Yildirim + Fatih Imal

Course Conditions

What do I have to bring in?

- Active participation
- Interest and self-study on the topics
- Minimum daily effort of 2 hours
- Interaction during lectures

Course Rules

Obligations

- Participation on
 - Lectures
 - Mentorship hours
- Be on time, be ready even before the start!
- Best Marks from quizzes, assignments, exams
- Excellency in assignments
- If you can not attend the course, inform us personally via email before the lecture
- Problems in attendance and in assignment delivery have serious/fatal consequences
- Always keep your web-cam open
- Use always, overall in the tooling you names in the following format: **Mehmet D.**
- Give feedbacks to us!
- It's hard, but do not give up!

tools

programs, applications, helpers, ...

Cloud

- A gmail account
- Slack
- Be sure you are familiar with GDrive
- W3schools as additional resource
- Draw.io as drawing tool
- GitHub account
- Join our Google Classroom
- Create an account on kiron.org

Computer

- Visual Studio Code
- Install VS Code plugins
- Install Git
- Install Chrome Browser
- Be sure you are familiar with Google Translator
- Zoom
- Slack

Questions?