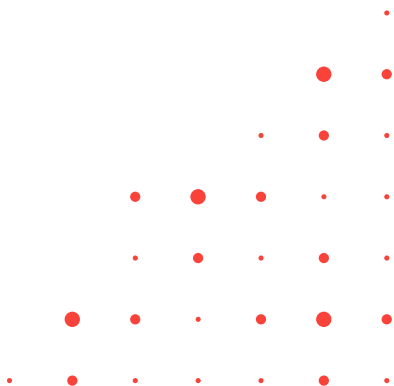


Welcome Workshop

TIEA3290 Mobiilisovellus, 3 op, Mobiilisovelluksen
toteuttaminen ideasta sovelluskauppaan

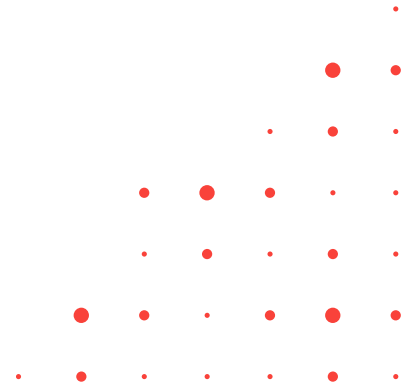
Welcome workshop agenda

- Welcome and introductions
- Course timetable
- Course tools
- Presenting application ideas
- Teaming
- 2 goals:
 - When you leave to session you have team and idea
 - Team has first steps agreed and short plan (team agreement)



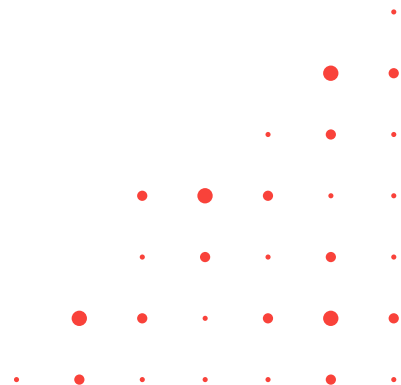
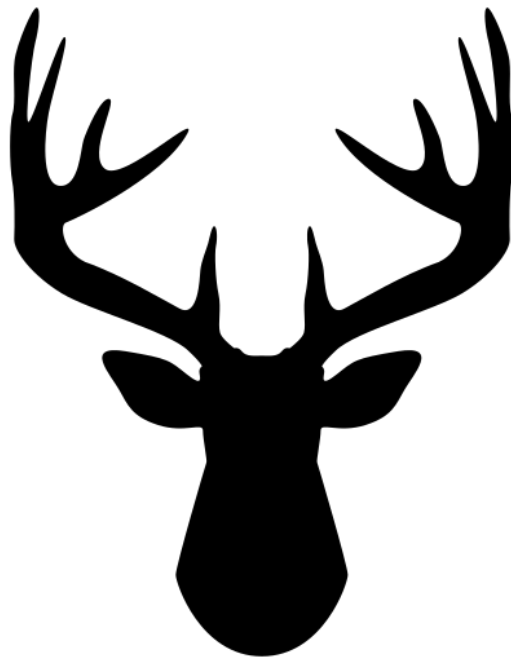
Course timetable

- 24.1.2023, 14.00–18.00 Course kick off
 - Teams, ideas, timetable, roles in the team
- 9.2.2023, 14.15–18.00 Design and Planning workshop
- 13.2.2023, 14.15–18.00 Development and QA-workshop 1
 - Development practicalities
 - Showing designs
 - Getting things started
- Coding Clinique
 - 1 hour
 - Weekly each Thursday starting 23.2. and ending 30.3.
- 13.4.2023 Development and QA-workshop 2
 - Finalization
- 27.4.2023 Deadline
 - Final party if the app is released



"Expectation vs. Reality"

"Long-term goal vs. MVP"



Why native mobile app?

Capabilities

- Camera + Qr
- NFC
- Location
- Easy login
- Integration to platform
- Security
- Notifications

Contextual factors

- Location independency
- Microinteractions:
small, well defined tasks
- Sudden needs
- Limited time
- Limited screen size
- Accessibility limitations such as single
handed use
- Long periods between uses

Mobile App development phases in this course

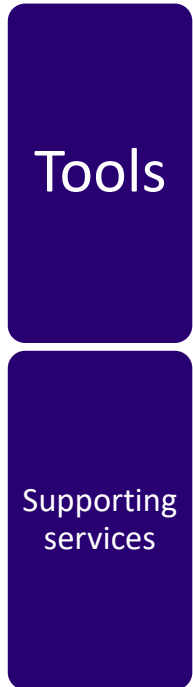
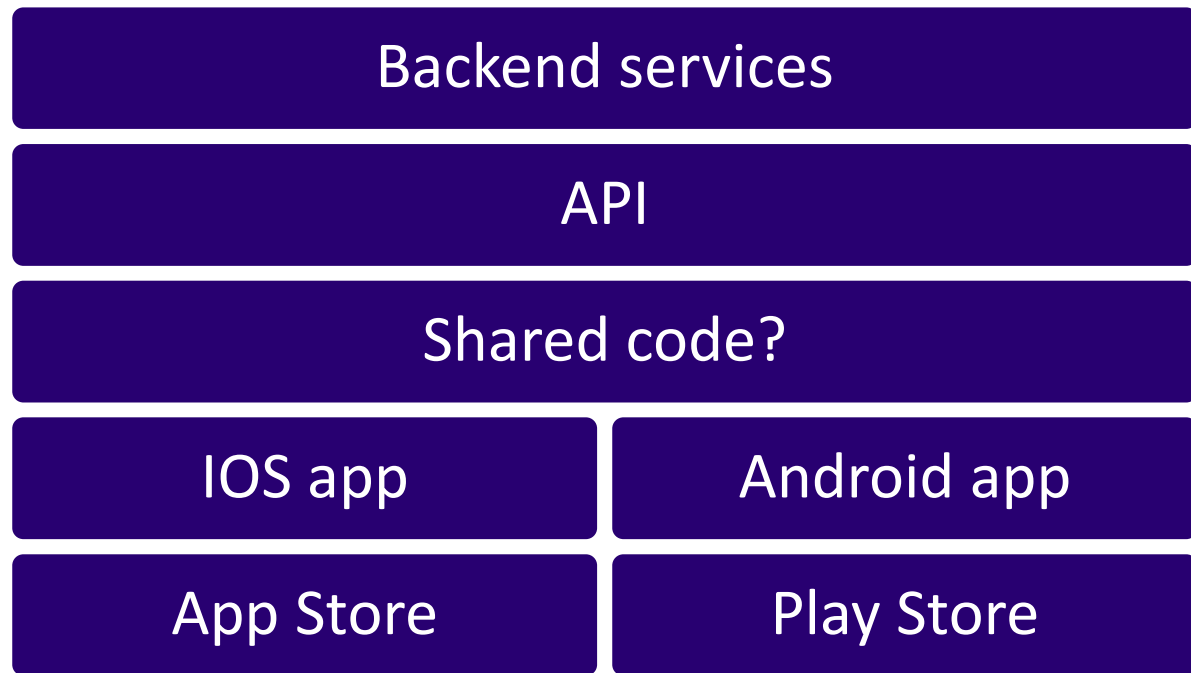
- Idea + Team (Today)
- Plan + Design (Design workshop)
- "Hello World" distribution (Dev & QA workshop)
- (CI/CD)
- ...intensive development...
- App Store / Google Play store review
- Publishing the app

Not required on this course:

- Unit tests
- Test automation
- Documentation

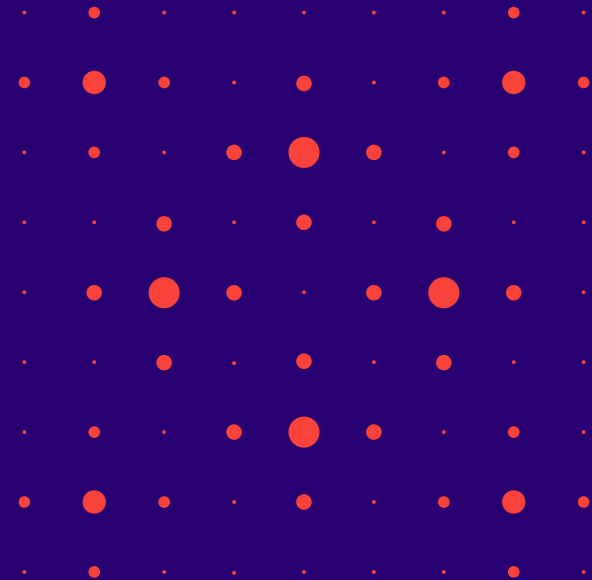
In order to get credits from the course the team needs to have the mobile app published in App Store / Google Play Store and we have received your individual learning report.

Tech scope high level



Welcome

Tietoenvry Create



A global partner for business design, data and software engineering

Tietoevry Create is a leading accelerator to customers' digital products and business models

We combine design and software engineering to create new experiences and growth opportunities for our clients.

With data, cloud and the latest technologies as the foundation, we use our diverse global skills to accelerate innovation and reinvent how businesses create sustainable value.



More than **9000**
creative developers of
digital futures

A diverse team of **65+**
nationalities living in
19 countries

Co-creating sustainable
value with more than
3 000 customers
worldwide

The leading accelerator for digital innovation and sustainable value creation

Our offerings

-  Agile business design and innovation
-  Data engineering and analytics
-  Customer experience and e-commerce
-  Application design and development
-  Cloud architecture and cloud native development
-  Advanced software engineering and R&D

How we create value

Empowering customers across all aspects of their digital business

Increasing value-of-innovation and decreasing time-to-market

Bringing agility and speed to our customers' digital innovation

Providing the fastest access to latest cloud and data technologies

Providing customers with a unique competitive edge

Outcomes built on deep customer and domain knowledge

Delivering on large scale and complex projects to reinvent digital services, products and experiences

Utilizing the most impactful network of cloud, data, software development and advanced engineering professionals

We deliver great Mobile Experiences

Tietoevry Mobile Solutions provides all services required to deliver great Mobile Experiences – from advisory to running the services.

We help our customers to find and implement new opportunities brought by mobility.

-  Mobile advisory and consulting
-  Mobile solution design and UX
-  Mobile solution implementation services
-  Continuous services and maintenance



**Trusted mobile
development
partner in
Nordics**

Over 20 mobile
experts in
Jyväskylä

Introductions



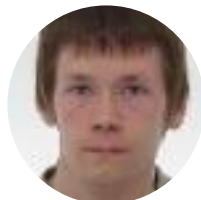
Henri Suutarinen

Team Lead



Toni Hintikka

Project Manager



Jani Lirkki

Lead SW Developer



Jani Kerttula

Senior SW Developer



Prafull Sanas

Senior SW Developer



Timo Tarvainen

Senior Test Engineer



Marko taali

Lead UX Designer

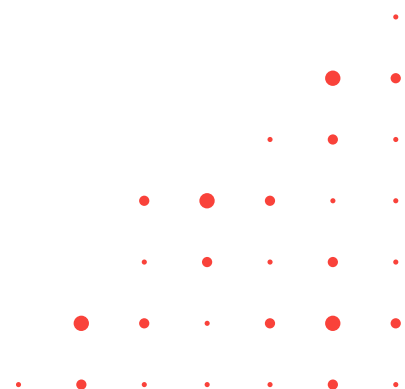


Petri Tillikainen

Senior UX Desinger

What Tietoevry Create team does?

- Support you in
 - Industry best practises
 - Scoping and prioritisation
 - Weekly coding clinics
 - best effort support in Slack.
- We don't do your work 😊



Introduction bingo

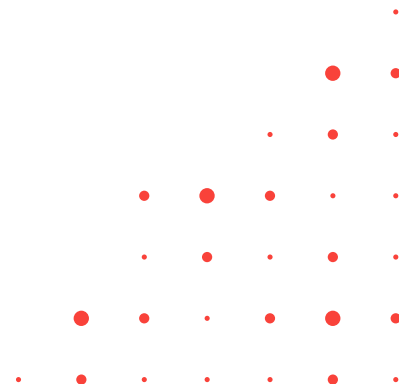


Get in the teams



Course tools

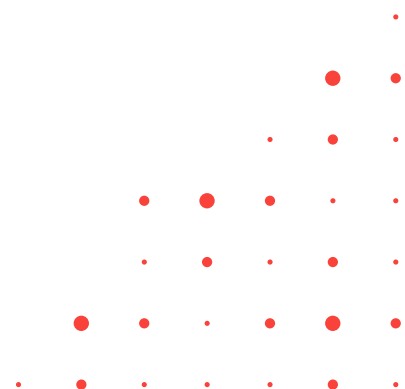
- Git Repo. Github Gitlab.
- Task management tool
 - Github Project, Trello
- Communication
 - Slack
 - Teams for meetings
 - Official messages to mail



Agile way of working

- We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:
- **Individuals and interactions** over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan
- That is, while there is value in the items on the right, we value the items on the left more.

<https://agilemanifesto.org>



Team agreement

- After you have get into your team you need to decide how do you work
- Develop sense of shared responsibility
- Increase members' awareness of their own behavior
- Enhance the quality of the group process.
- **We make commitments as a team.** We will be held accountable to our commitments. – we work as a team to make a commitment and deliver on it.
- **Incomplete stories are not good** – it is better to help get an existing story to “done” than to start another story that can’t be finished in the current sprint.

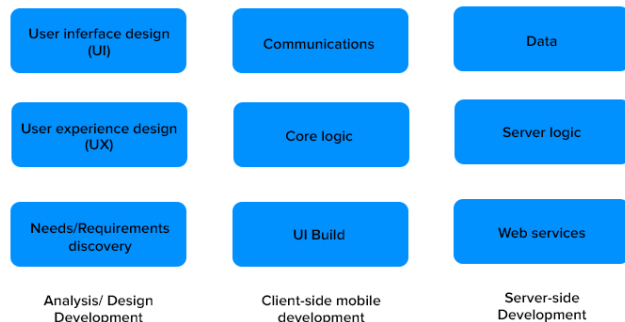
Technology



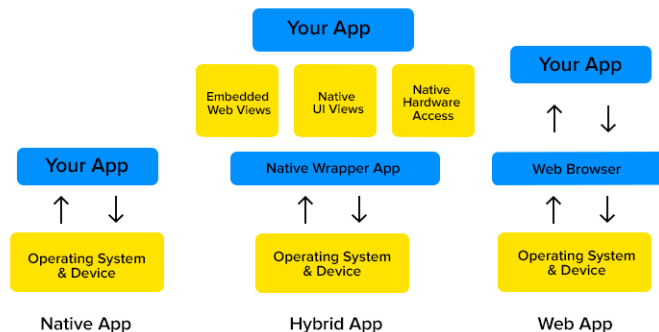
Tech Stacks to Launch Your App

- <https://appinventiv.com/blog/technology-for-mobile-app-development/>

Mobile Application Technology Layers

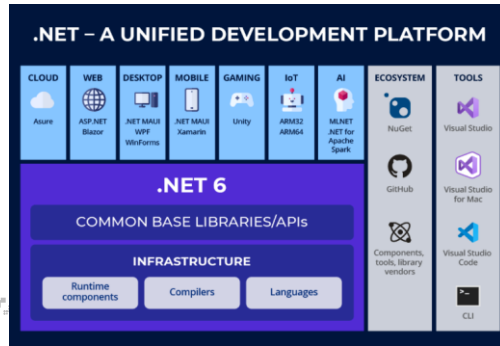


Mobile App Technology Stacks

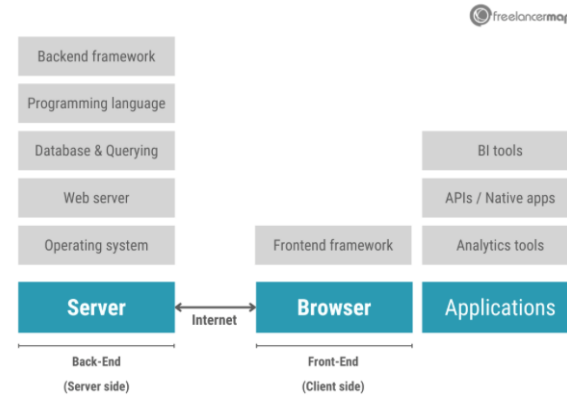


Tech Stack: Overview Of The Top Technologies of 2022

- <https://www.freelancemap.com/blog/tech-stack/>



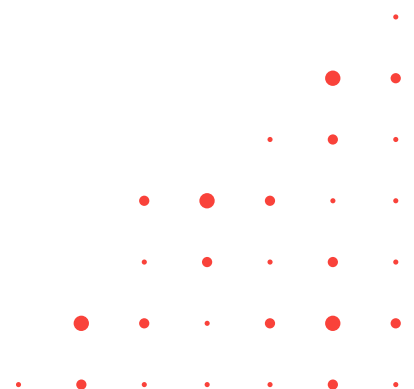
.net option/



Example: Modern tech stack

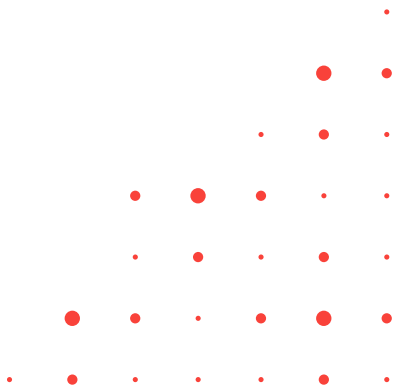
Native app options

- Native iOS
- Native Android
- Cross platform application
 - Flutter
 - React Native ([link to comparison article](#))
 - .NET Multi-platform App UI (<https://dotnet.microsoft.com/en-us/apps/maui>)



First tasks of the team

- Team members listed with team roles
- Team has the idea
- Team practicalities (code repo, meetings, communication)
- First team meeting agreed. Do the Homework.



Design Homework



Homework: Challenge Statement

Phase 1: Understand

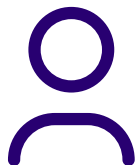


Goal

Create... a tool that...

Solves x... for launch in Q2...

for defined users.



User type

Defined user



Platform

Mobile

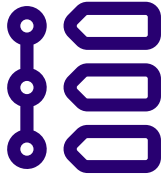


Timeframe

By June

Homework: Deliverables

Phase 1: Understand



Your deliverables here

Mobile app designs

Project plan

Mobile application code

Etc.



Thank you

Learn more at tietoevry.com

