

Mobile Application Design & Development

Hosted by : Dreams Solutions
Conducted by : Team of final year
IT Undergraduates in University of
Moratuwa



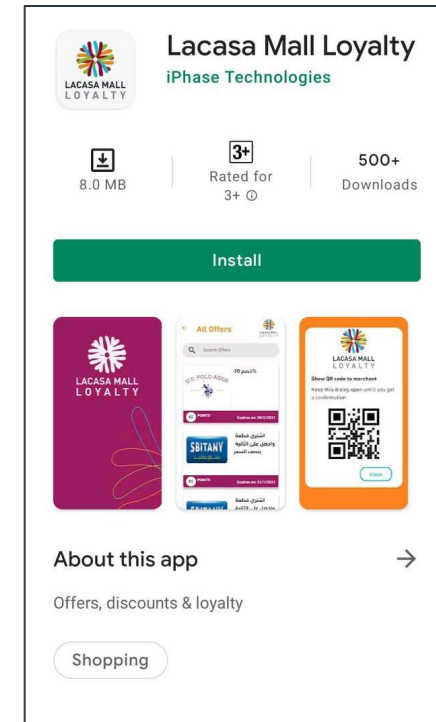
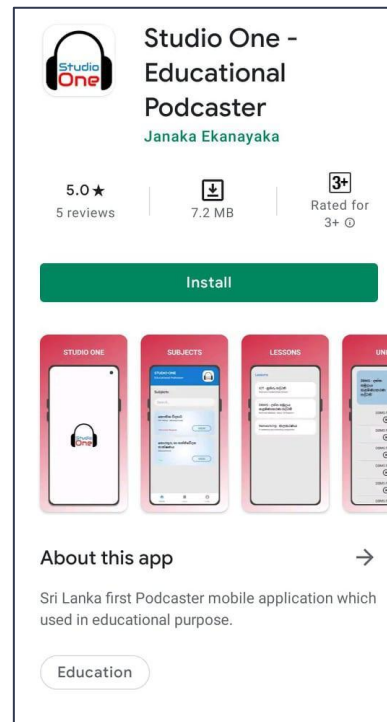
Dreams Solutions

- Software Solutions
- UI/UX designing
- Graphic designing
- Education support center

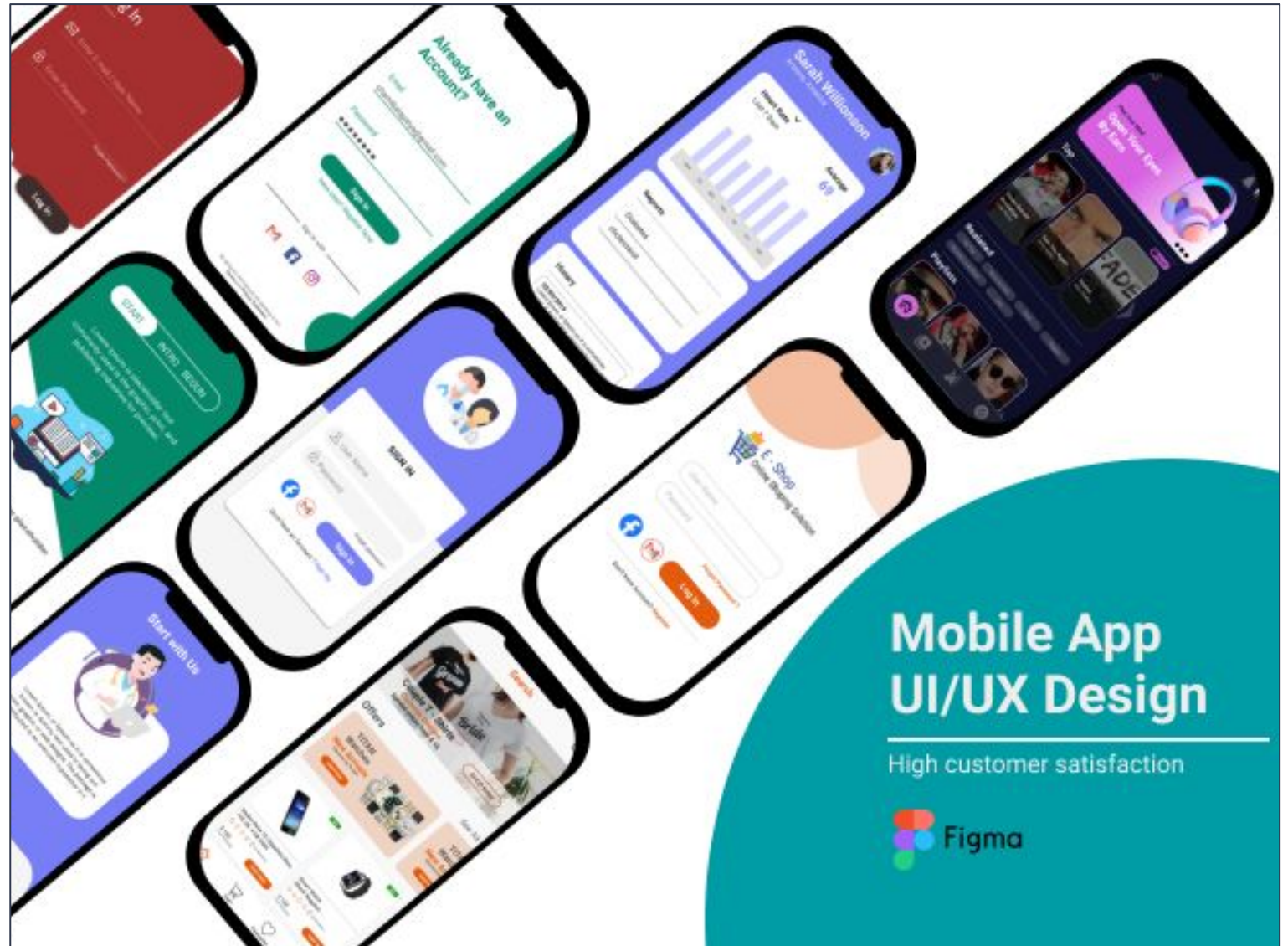


Our journey

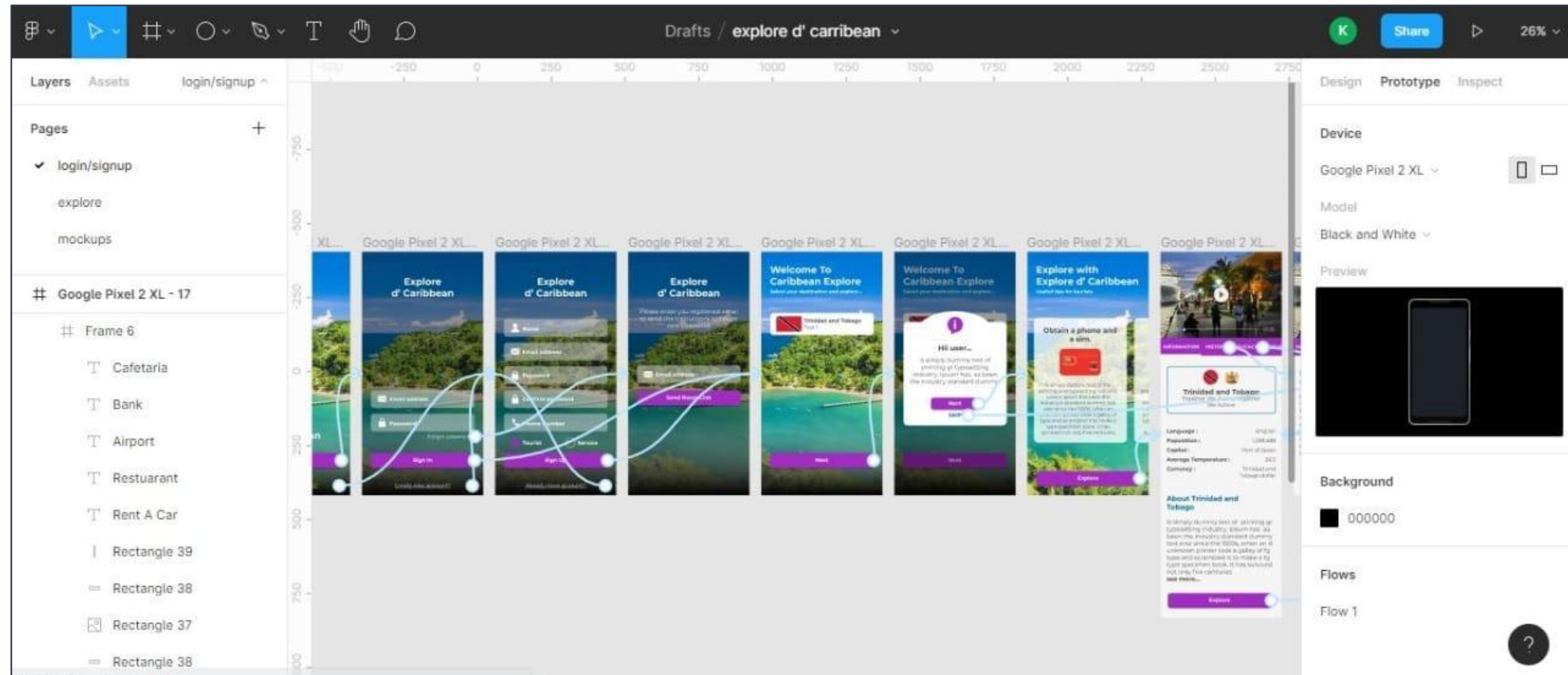
- Lacasa Mall Loyalty
- Studio One – Educational Podcaster



UI/UX Projects



explore d' Caribbean



Dreams Solutions – Education Support Center



Mobile Application Design & Development

Pre Software Engineering

Our journey

- In the early stage of corona pandemic situation, we conducted Advanced level ICT free session series.
- More than 500+ students were joined with this sessions

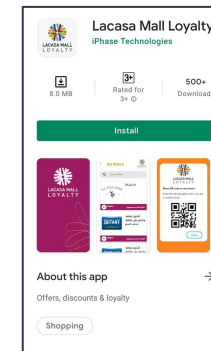
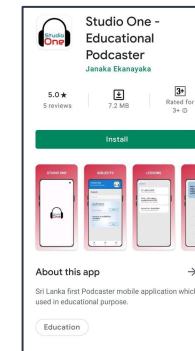
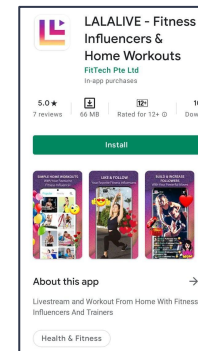
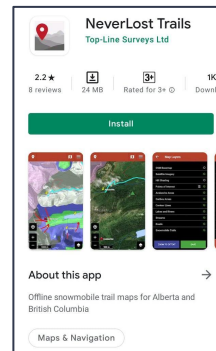




Nirmal R G K

B.Sc. (Hons) in IT.

Software engineer | Native Android Consultant



Communication media & Knowledge resources.



TELEVISION



RADIO



NEWS PAPERS



LETTERS

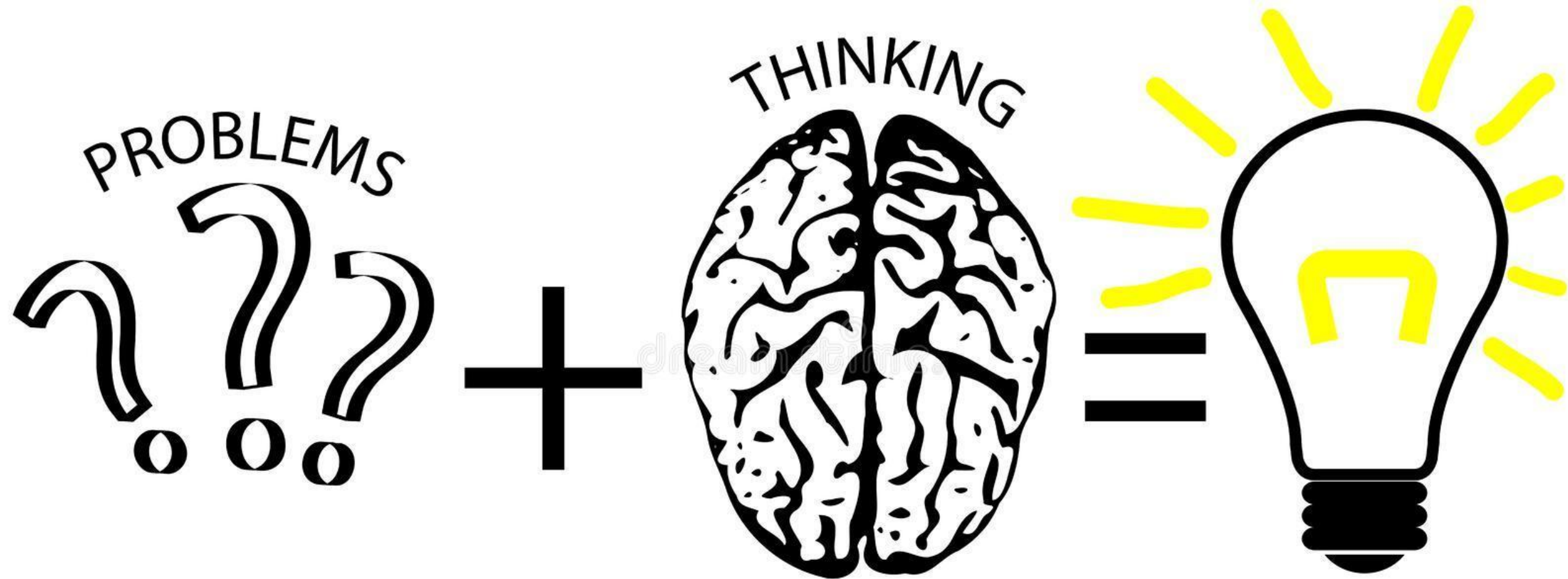


BOOKS

Modern
Communication
media

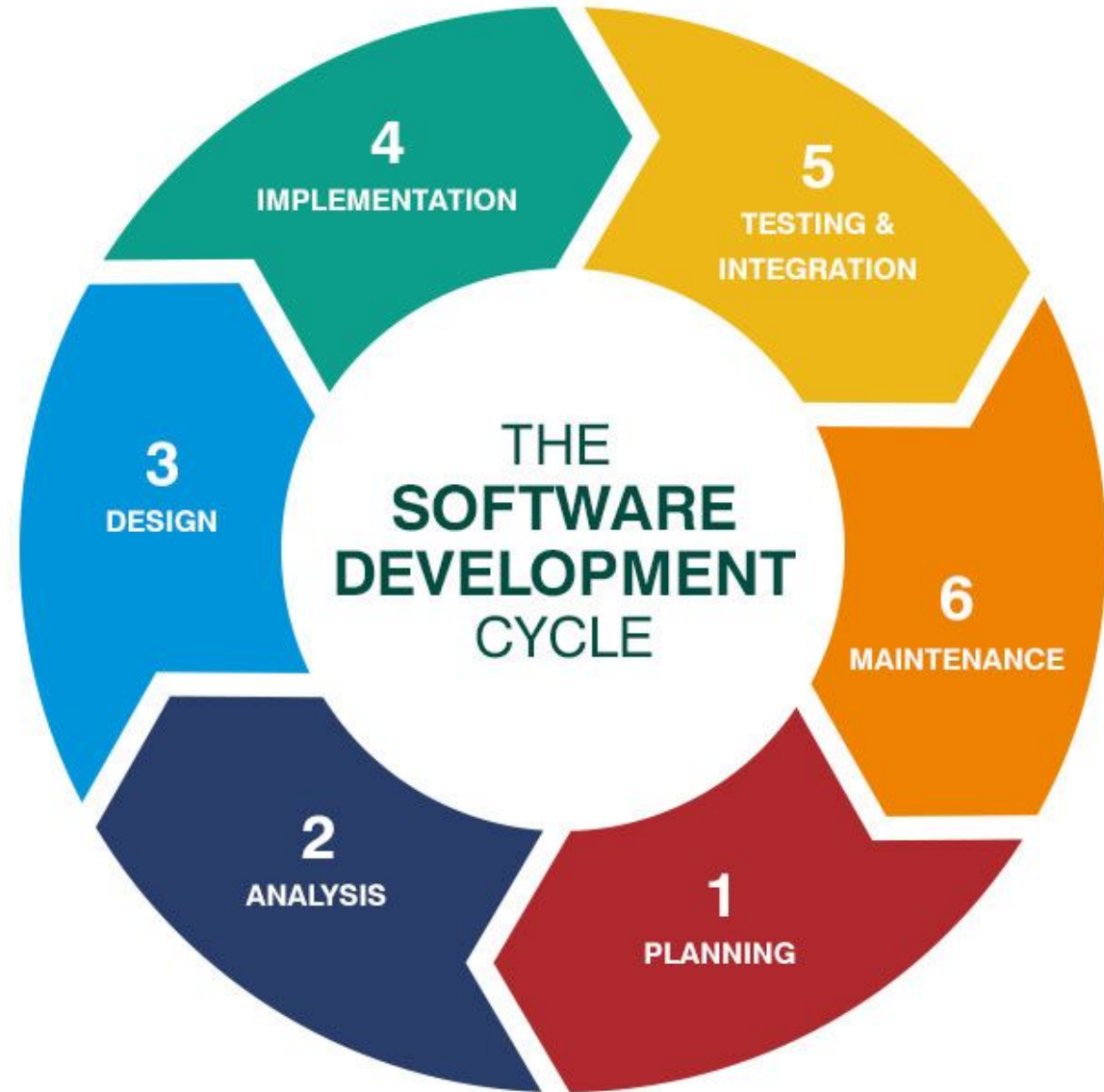


What is an Application?



System Development Life Cycle

https://www.youtube.com/watch?v=VOLDxbcuGjc&ab_channel=nabilahabdrahman





Smart Phones & Computers

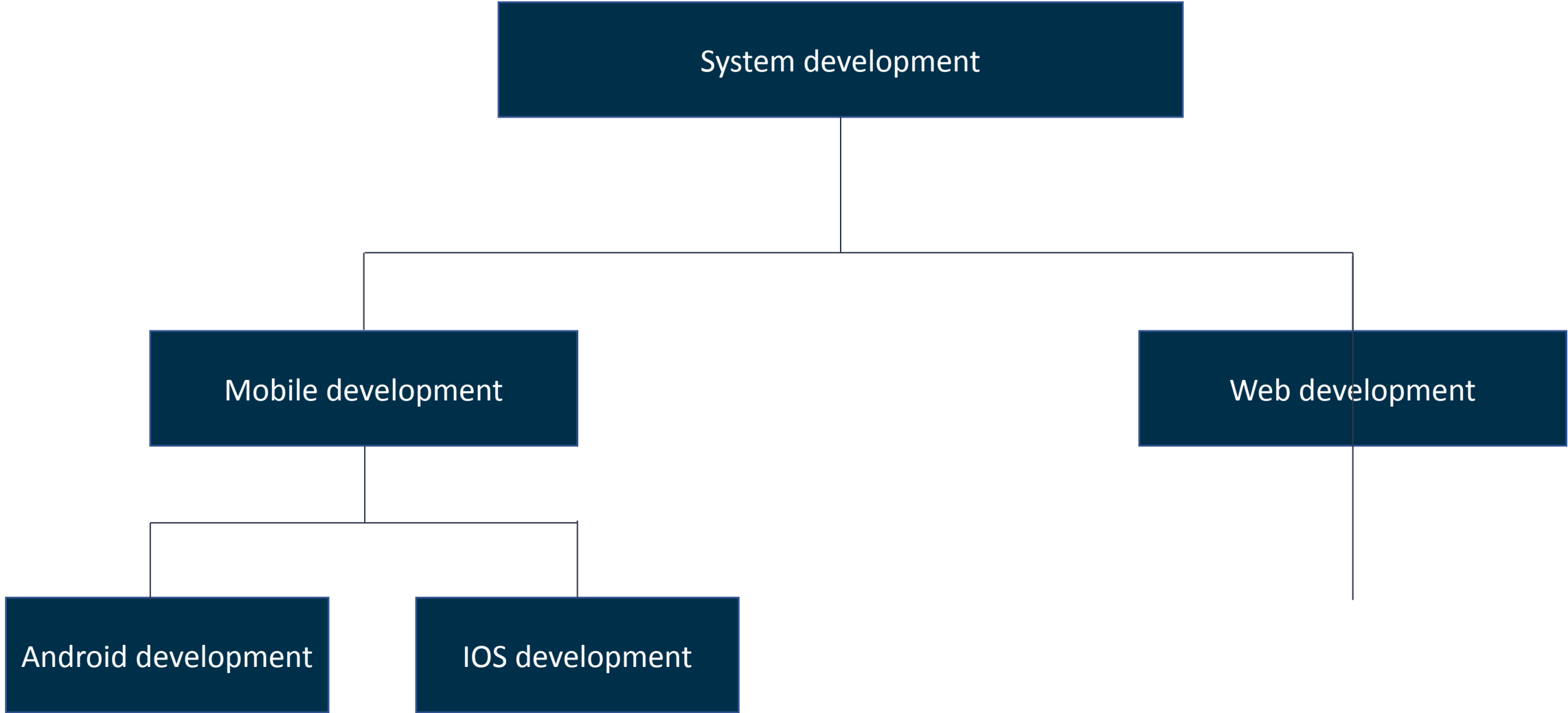


Operating Systems

- Microsoft Windows
- Linux
- Apple macOS
- Google Android OS
- Apple iOS



created by NotesJam





Cross platform vs Native development

- Cross-platform app frameworks are **the tools used by the developers to create apps for multiple frameworks**. Unlike native, cross-platform frameworks allow developers to develop an app with one-time coding and run it on all platforms such as Android, iOS, Windows, with a few minor changes in the development of course.
 - A native application is **a software program that is developed for use on a particular platform or device**. Because a native app is built for use on a particular device and its OS, it has the ability to use device-specific hardware and software.
-

Cross-Platform App Development

- Pros

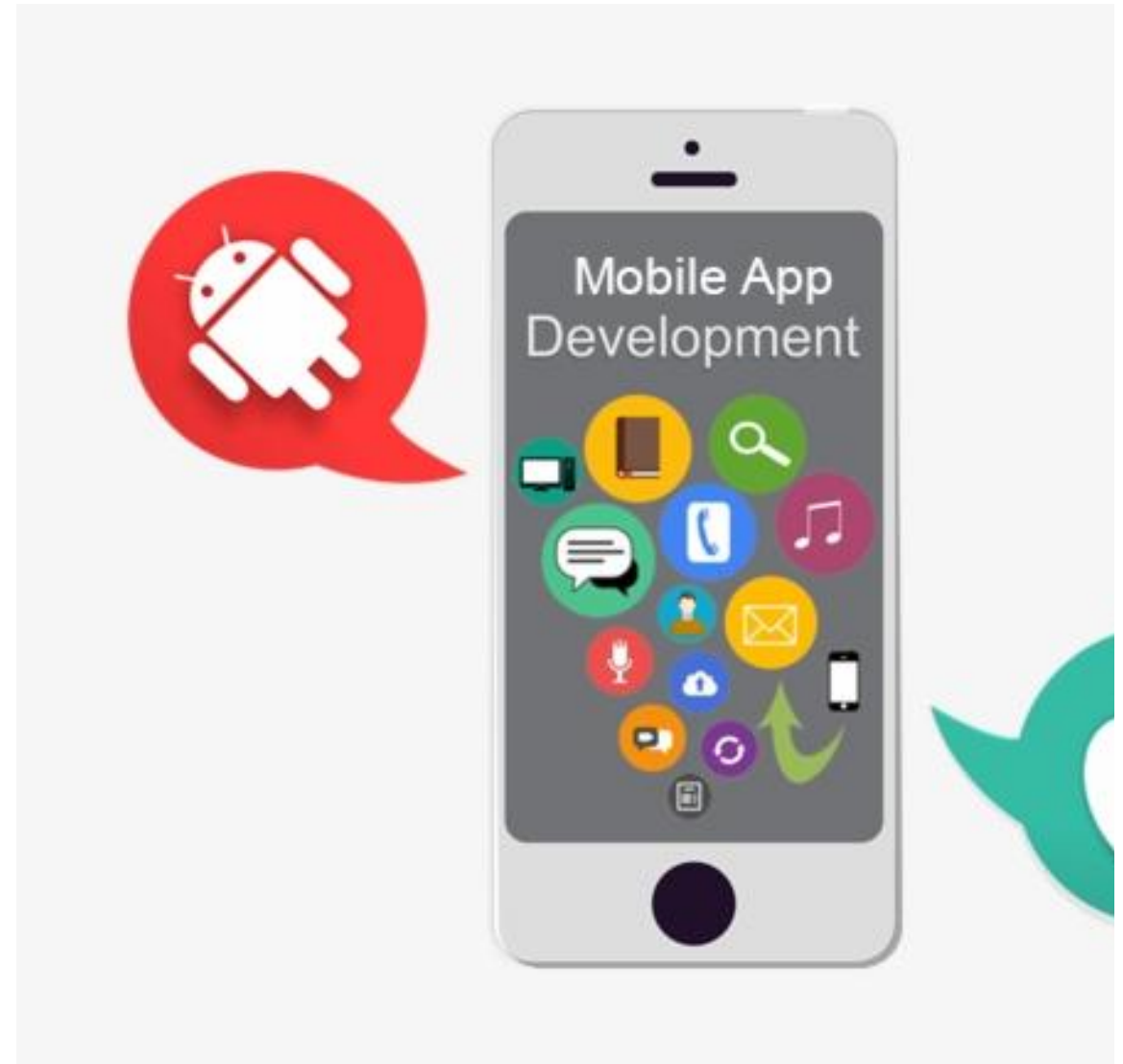
- Less cost
- Faster Development
- Single code base

- Cons

- Slowe Apps
- Limited Functionalities
- Limited UX



- Pros
 - Broad Functionalities
 - Better store support
 - Increased scalability
 - Higher performance and great UI/UX
- Cons
 - Costly
 - Time consuming
 - Limited UX



What To Consider When Choosing An Approach To Build Mobile App



**APPLICATION
COMPLEXITY**



COST



DEVELOPMENT TIME



UI/UX

You Should Choose Cross-Platform Development If:

- You are ready to accept less responsive app.
- The application does not involve complex animation nor deal with complicated logic.
- You have a short window to test an idea and hypothesis in the app market.

You Should Choose Native Development If:

- Your application requires full access to all of the phone resources and services.
- You want to build the most responsive application.
- You're looking to take full advantages of the mobile phone's hardware.
- You want an app that can be easily updated and enhanced with new features in the futures.
- When Target user base is used basically one of native platform.

Summary

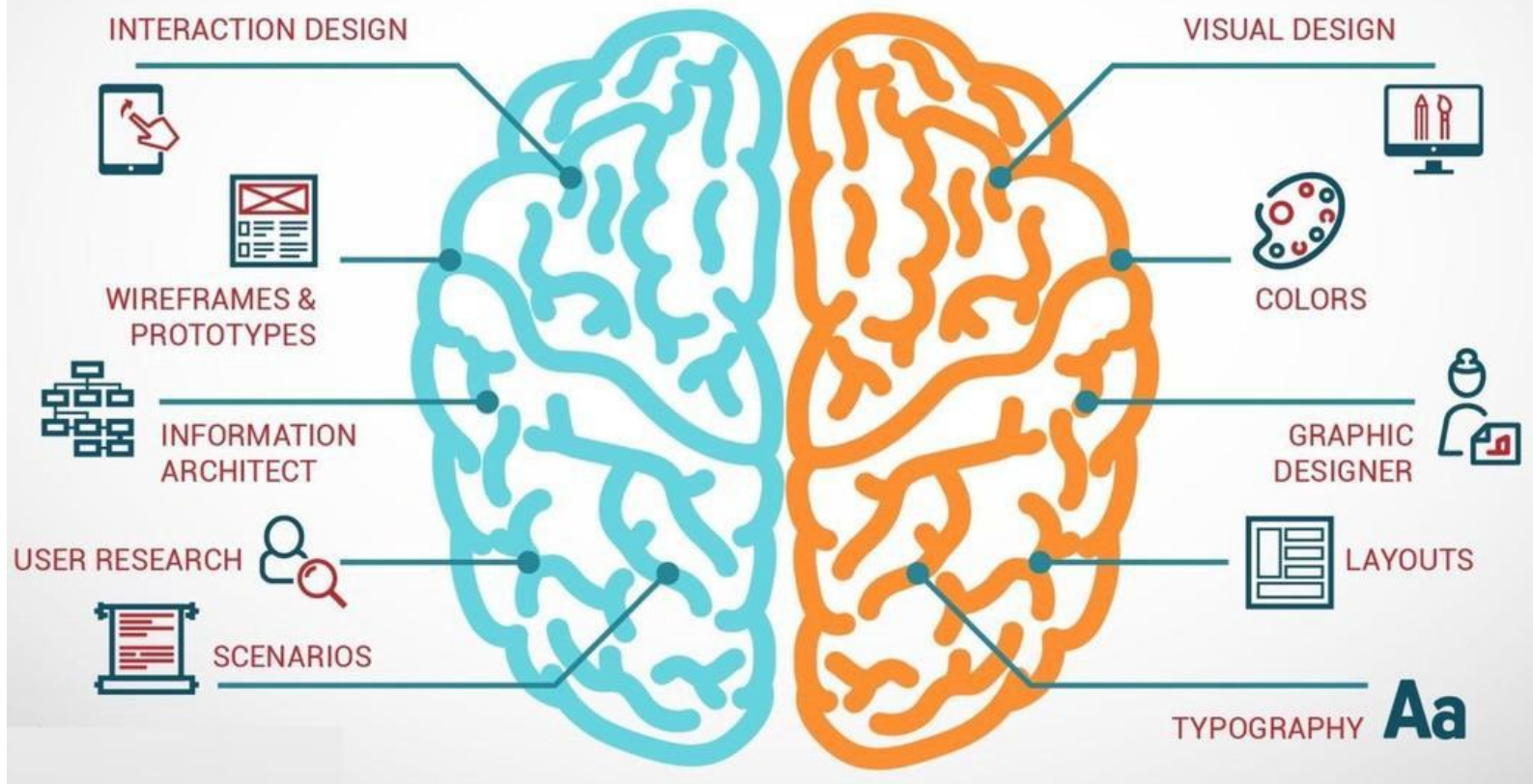
- Native and cross-platform developments have different pros and cons. Ultimately, the choice of going with either depends on project requirements and the skills of the developers involved.
- Native apps are still the best choice when it comes to user experience and performance. While they are more costly, you'll be at ease with lower defect rates and better visuals.
- Cross-platform apps are easy and quick to build, but it'll take more effort to deliver an equivalent user experience on the respective platform.

UX

&

UI

DESIGN



UI/UX
designer



What is UI Design?

- The “UI” in UI design stands for “user interface.” The user interface is the graphical layout of an application. It consists of the buttons users click on, the text they read, the images, sliders, text entry fields, and all the rest of the items the user interacts with. This includes screen layout, transitions, interface animations and every single micro-interaction. Any sort of visual element, interaction, or animation must all be designed.
 - Tools -
-



What is UX Design?

- “UX” stands for “user experience.” A user’s experience of the app is determined by how they interact with it. Is the experience smooth and intuitive or clunky and confusing? Does navigating the app feel logical or does it feel arbitrary? Does interacting with the app give people the sense that they’re efficiently accomplishing the tasks they set out to achieve or does it feel like a struggle? User experience is determined by how easy or difficult it is to interact with the user interface elements that the UI designers have created.
-

The Difference between

UX

Interaction Design

Wireframes

Information Architect

User Research

Senarios



UI

Visual Design

Colours

Graphic Design

Layouts

Typography

UX design

Product definition

- Stakeholder interviews
- Value proposition mapping
- Concept sketching

Product research

- Individual in-depth interviews
- Competitive research

Analysis

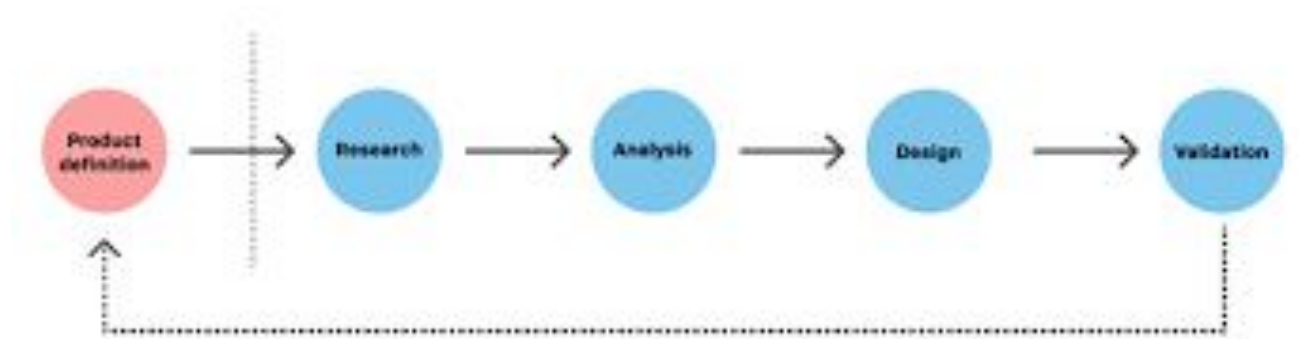
- Creating user personas.
- Creating user stories.
- Storyboarding.

Design

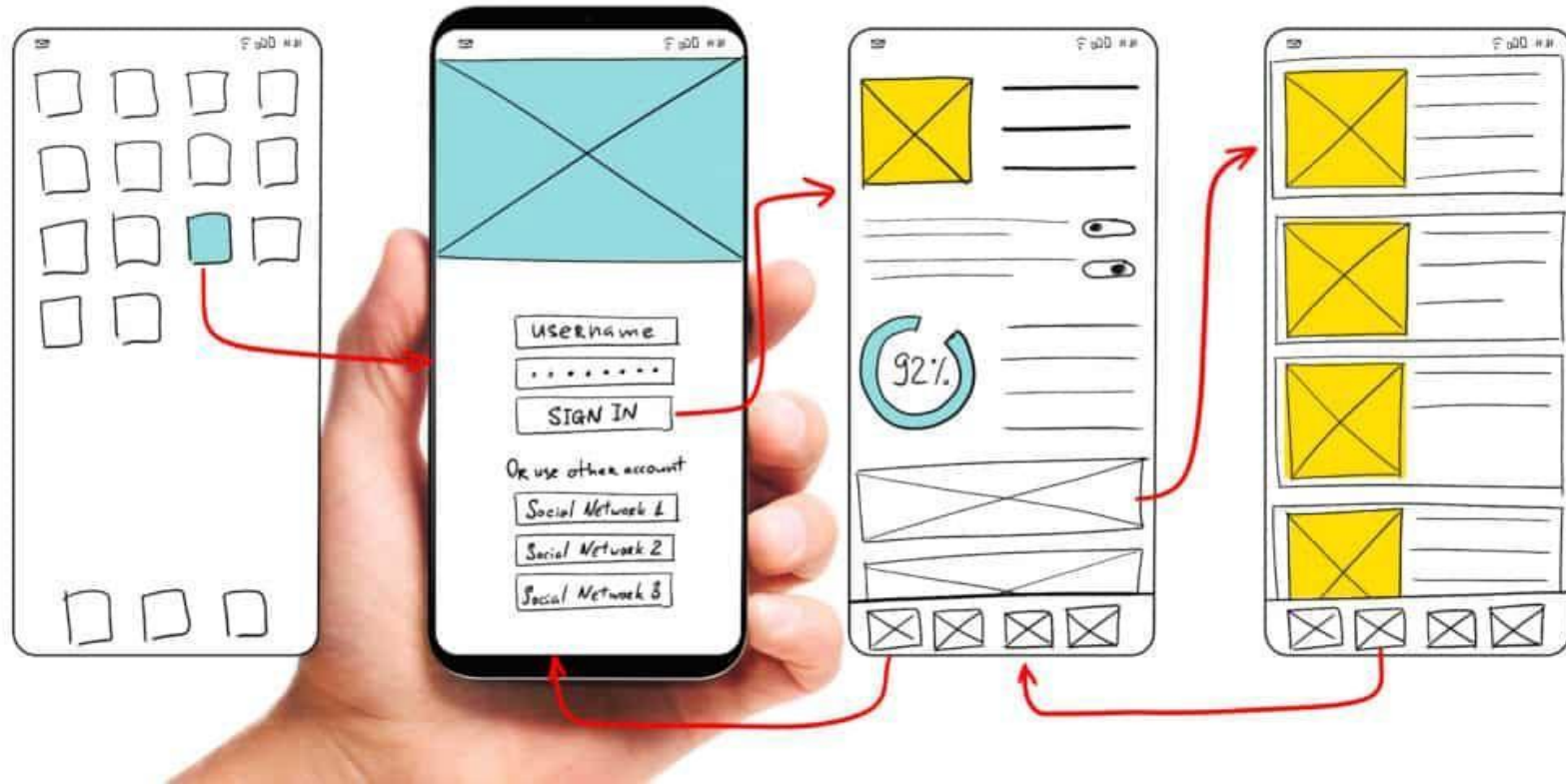
- Sketching
- Creating wireframes.
- Creating prototypes.
- Creating a design specification.
- Creating design system.

Validation (Testing)

- Eat your own dogfood.
- Testing sessions.
- Surveys.



UX design



UI design

Graphical user interfaces
(GUIs)

Voice-controlled
interfaces (VUIs)

Gesture-based
interfaces



To design
UIs best,
you should
consider:

Users judge designs quickly and care about usability and likeability.

UIs should also be enjoyable (or at least satisfying and frustration-free).

UIs should communicate brand values and reinforce users' trust.



Sketch



Figma



Adobe XD



Affinity
Designer



Framer



Principle



Origami



Marvel



inVision



Zeplin

UI design tools

Mobile Application Design & Development Course

UI/UX designing with figma



Android studio native
development



Firebase integration



Flutter development



Extra

- Github version control.
- Fiverr freelancing.
- Programming best practices.

Out Comes

- Completion certificate.
- Your own mobile app in playstore.



Course details

4 Months
Sunday
6 PM to 9 PM

Full Course - 10 000 LKR
2 Installments
5000 LKR * 2

Feedbacks

Supiri.. godk dewl dengththa.. try krnw me sathiye aniwarenm..

Hodata therena widihata kiyala dunna.

Hodata session eka keruna...thnqq sir..

Well done, Really good explanations. Thank you ayye

It is very interesting session, I like this way.

Great work sir... speed ek nm ganata tynw... smhara dewal deparak karapu eka gdak wtinw... figma wlt nti unath antima sathi wala amaru dewal krnkota vvideo 1k 2k hari danw nm watinw... ❤️

Ada aiye hodata wade kala aiya . Athtatama asa hituna aiye karanna UI pathataa. Hodata therenna kala aiya. Thank you aiye

Session was good. Thank you

Greate job sir...keep it up and waiting for the next session

ගොඩක් හොඳයි...අලුත් දේවල් ගොඩක් දැනගන්නා...ස්පීඩ් එකත් හොඳ යි...උගන්නව ක්ලියර්....7.30 ට 8ට විතර පොඩි ඉන්ටර්වල් එකක් දෙන්න පුළුවන් නම් හොඳ යි.. 😊

හොඳට කරා session එක.....

Supiri.. godk dewl dengththa.. try krnw me sathiye aniwarenm..

වරදක් නම් මුතුන් මට පෙන්නේ
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තිබ්බ නිසා android වල මුල් සති
දෙකටම එන්න බැරි උන... ඒත් අයියා
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දුන්නොත් වට්ටි කියලා... thank you



23:28

Clz ek hodatm krnw.. smhr welwt nn speed
ek wedi wge poddk.. eth shape. (Clz time ek
wens krnn pulwn nn tikk hodai wge ayye e
time ekt connection aul ynw smhr dwst..
pulwn nn wtrk blnn mkd ek mge aulk nisa.)

This is a good course. Also it's well
organised and presented it very clearly. I
learned many things about development
from it.

I'm satisfied with this course. It will be great
if we have a advanced mobile application
development course too.

All good.I have learned many things from the
course so far.Thank you very much.

Really good

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Season eka karanna kalin karanne monawada kiyala handout ekak denna puluwan nam hodai

කිසිම වරදක් / ගැටලුවක් නෑ, Discussion එකක් එක්ක ක්ලාස් එක ගියා නම් තවත් ළමයි Motivate වෙයි කියලා හිතනවා. (මගේ අදහස විතරයි දැනට කරන විදියත් කිසිම ප්‍රශ්නයක් නෑ)

ස්තූතියි 🙌

Excellent!

කියල දුන්න දේවල් හොඳට තෙරුණා..

hodai,, kiyala dunna hamadema theruna

හොඳටම හොඳයි. හැමදේම මුල ඉදන් ගාන්ට
කියල දුන්නා. Good luck !

Hodata pahadili karala kyl denawa.superb 🧡
🧡

That was an awesome session.

Java ගැන ගොඩක් කරන්න පුළුවන් නම්
හොඳයි

Excellent teaching

Good session and Good teaching method
Q&A session and Giving assignment are very
useful to us to practice university studies.
And also,In programming
please teach how to improve our logical
thinking and in next hard lessons explain a
little more slowly
Thank you

Grate as I expected!

Excellent 🧡 Masekt sarayak witara subject
ekaka topic ekak gana research ekak karala
report ekak denna wage exercise ekak denaw
nam maru.. !!



Thank you