

Pengembangan Aplikasi Web

Pertemuan Ke-1 (Konsep Dasar Pengembangan Aplikasi *Web*)

Noor Ifada

Email: noor.ifada@trunojoyo.ac.id

Scopus: 56590032100

Google Scholar: Noor Ifada

ResearchGate: Noor-Ifada

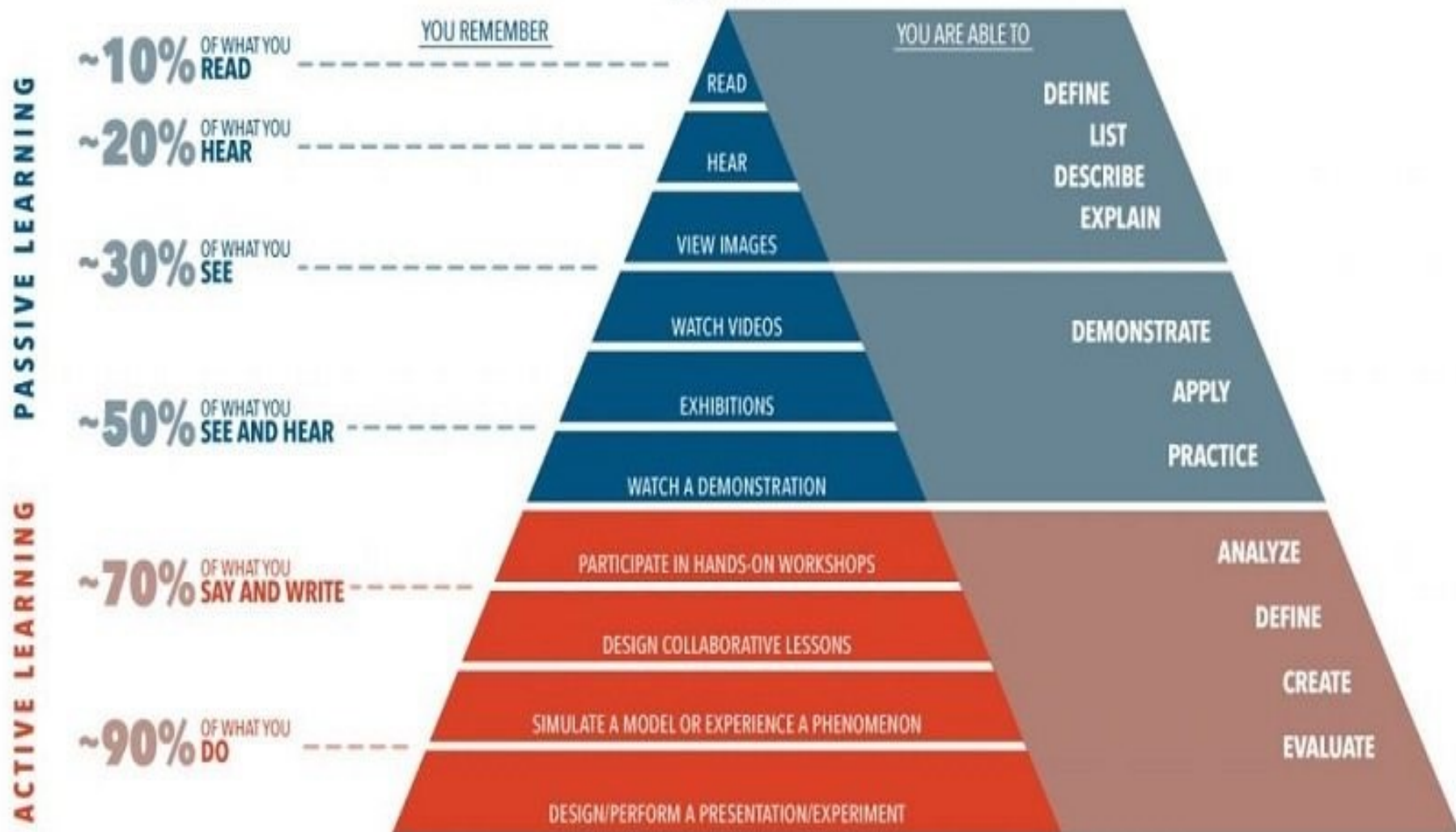
Repository: Trunojoyoan

Semester Gasal 2023/2024

S1 Teknik Informatika – Universitas Trunojoyo Madura (UTM)

CONE OF EXPERIENCE

EDGAR DALE



<https://elearningindustry.com/>

SOFT SKILLS FOR STUDENTS

6 SKILLS TO HELP YOU SUCCEED



1 Problem Solving

Do you see problems as interesting opportunities? Problem solvers anticipate potential stumbling blocks and act to prevent them or mitigate their effects.

TIP: You don't always need to start by trying to solve the problem. First, aim to understand the root of the problem.



2 Creativity

Are you able to think outside of the box even when you're not asked to? Everyone has creative abilities. Creative thinking skills help you to look at problems and situations from a fresh perspective.



3 Communication

Are you an effective communicator and active listener? Communication skills will help you understand others and be better understood in return. This can help make each interaction you have in both your work and social life a more positive experience.




4 Time Management

Are you an organized person who meets deadlines? Good time management skills enable you to do more in less time, helping you reduce stress and maintain a better work-life balance.

TIP: Prioritize your tasks and delegate a time limit to how long you spend on each one.



5 Stress Management

Can you identify and tackle your stress triggers? Being able to manage stress allows you to break the hold it can have on your life. This will make you happier, healthier, and more productive in return.

TIP: Set limits and learn to say no to requests that would create excessive stress in your life.



6 Teamwork

Are you a team player who collaborates well with others? Teamwork requires leadership and goal orientation. Whether in school or a job, the better you work within a team, the better your work will be!

TIP: Always clarify roles, responsibilities and accountability with your team members.




END



Tabu Bagi Mahasiswa Teknik Informatika

- ❖ Tidak dapat beradaptasi dengan (perkembangan) teknologi
- ❖ Tidak dapat membaca atau memahami instruksi
- ❖ Tidak dapat membuat program



**LEARNING IS NEVER
DONE WITHOUT
ERRORS AND DEFEAT**

VLADIMIR LENIN

PICTUREQUOTES.com



PICTUREQUOTES

Sub Pokok Bahasan

- *Server versus Client*
- *Web Dinamis versus Web Statis*
- Pengembangan Aplikasi *Web* (PAW):
 - Kualifikasi *Full-stack*
 - Metode SDLC
 - Kebutuhan *Stakeholder*
 - Contoh proyek
 - *Roadmap*
 - *Back-end Roadmap*

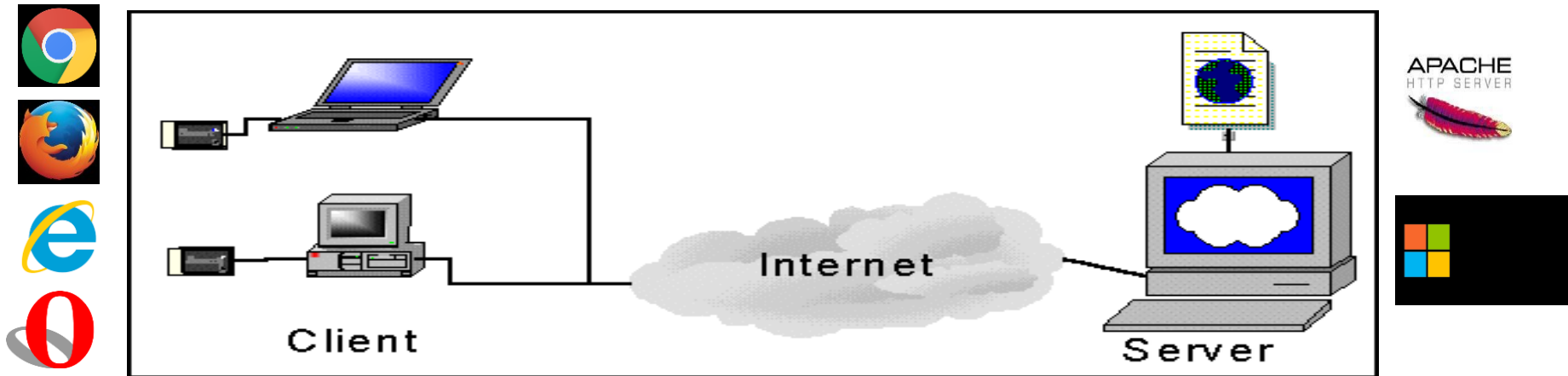
Server versus Client

Client

- Bertugas mengakses informasi yang disediakan oleh *server*
- Pada layanan *web*, *client* dapat berupa *web browser*

Server

- Penyedia berbagai layanan termasuk *web*
- Layanan *web* ditangani oleh *web server*



Web Dinamis Versus Web Statis

Web statis

- Menampilkan informasi yang **sifatnya statis** (tetap)
- Teknologi yang digunakan berbasis **client-side**
- Contoh teknologi yang digunakan : Hyper Text Markup Language (**HTML**), JavaScript, Cascading Style Sheets (**CSS**)

Web dinamis

- Menampilkan informasi yang **sifatnya dinamis** dan/atau memproses data yang dikirimkan oleh *user*
- Seringkali memerlukan **akses basisdata**
- Teknologi yang digunakan berbasis **server-side**
- Contoh teknologi yang digunakan: Common Gateway Interface (CGI), Active Server Pages (ASP), Java Server Pages (JSP), ASP.NET, PHP Hypertext Preprocessor (**PHP**), Node.js, Python

PAW: *Full-stack*

- Teknologi *Front-end (client-side)*
- Teknologi *Back-End (server-side)*
- Sistem Basisdata
- UI/UX

PAW: SDLC

- *Software Development Life Cycle (SDLC)*

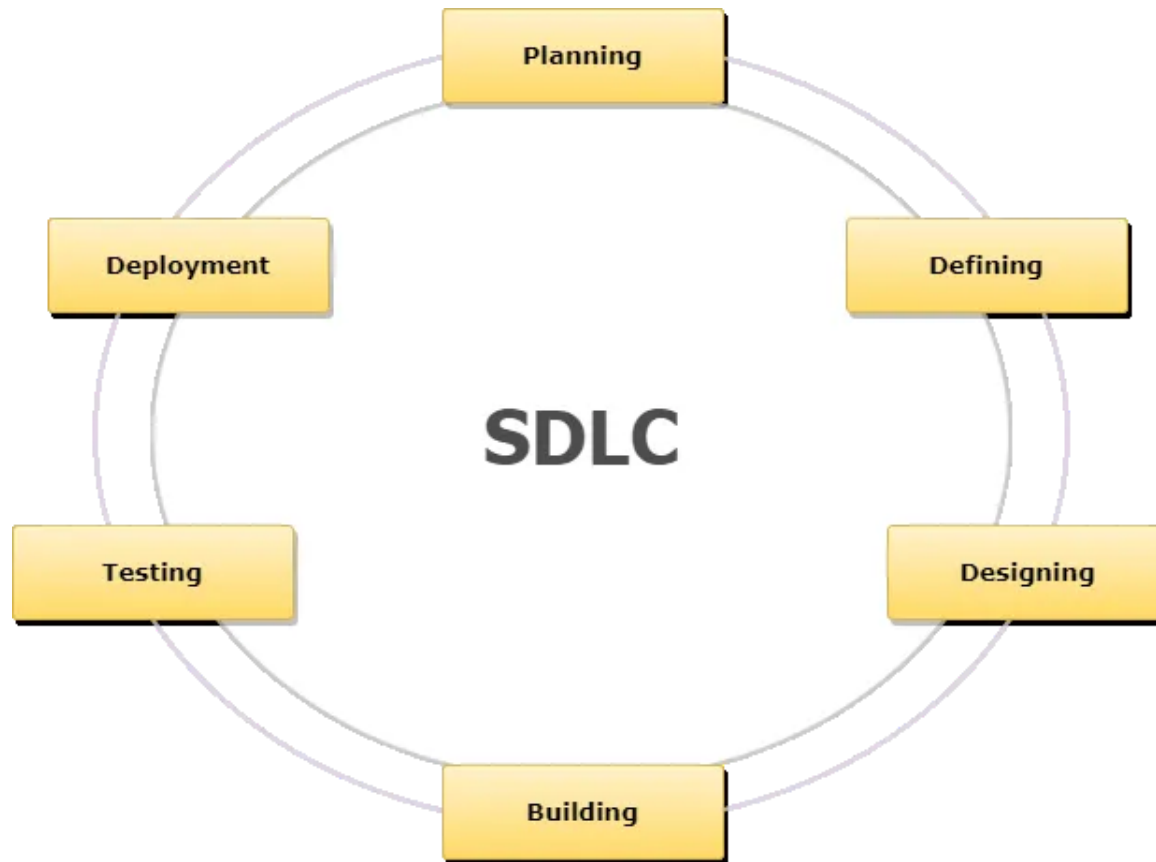


Figure: Software Development Life Cycle Stages

Source: <https://www.w3schools.in/sdlc-tutorial/software-development-life-cycle-sdlc/>

PAW: SDLC (Waterfall)

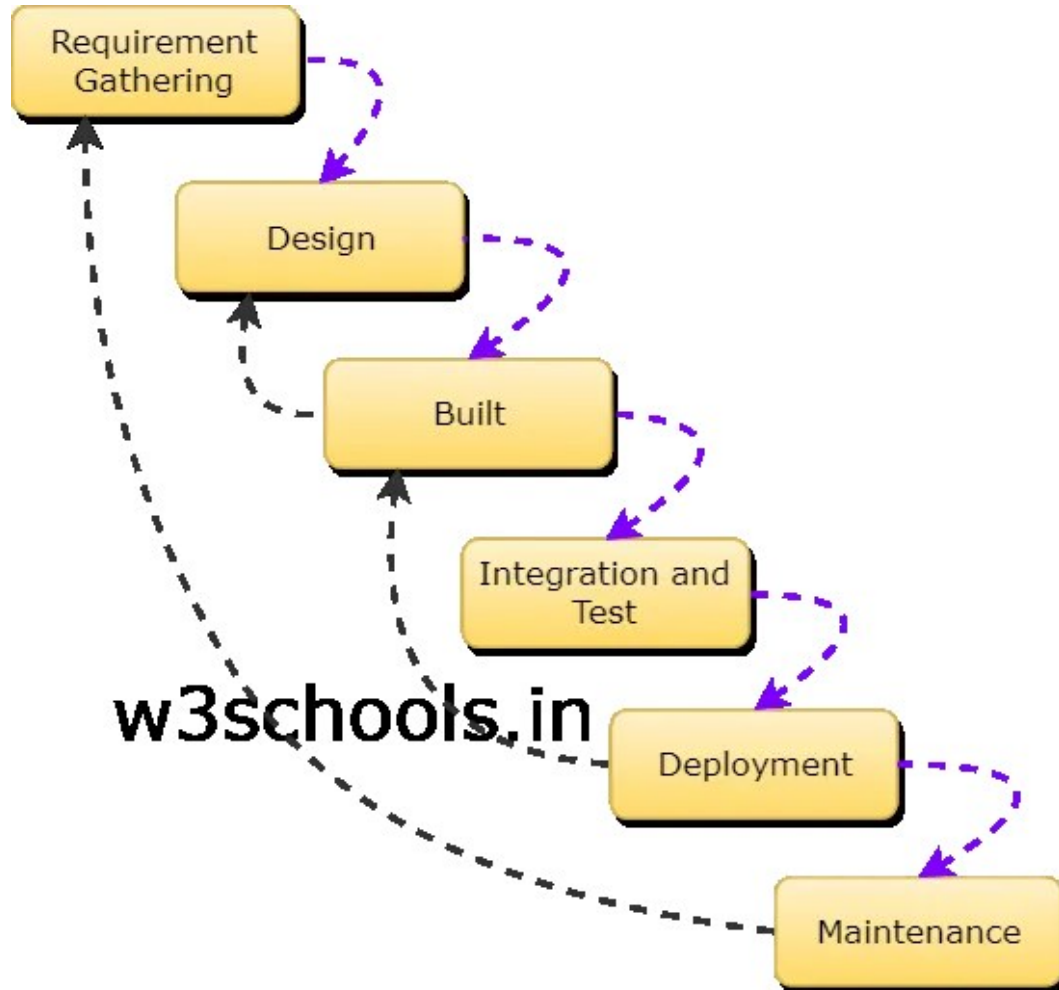
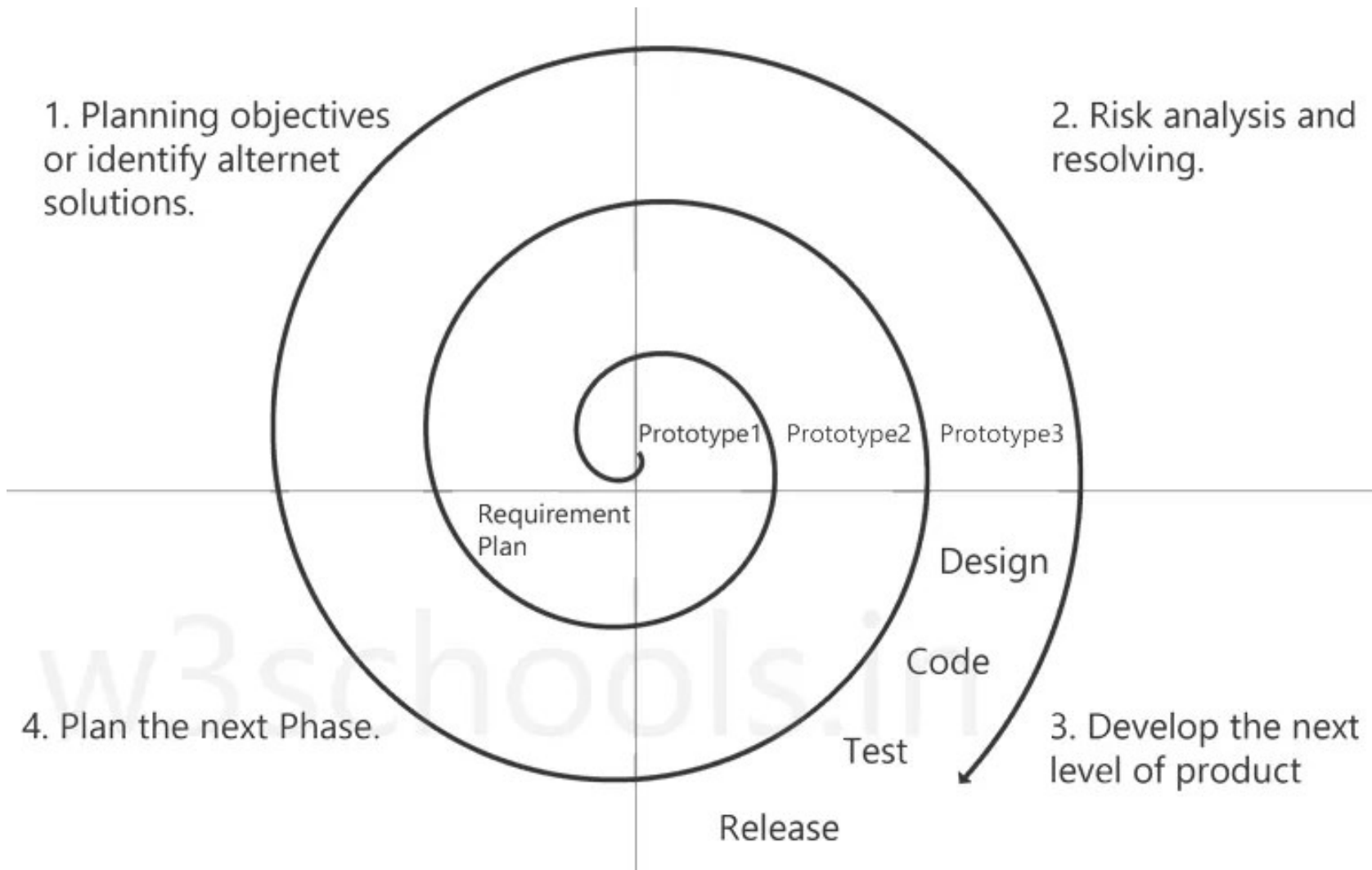


Fig: SDLC Waterfall Model

Source: <https://www.w3schools.in/sdlc-tutorial/waterfall-model/>

PAW: SDLC (Spiral)



Source: <https://www.w3schools.in/sdlc-tutorial/spiral-model/>

PAW: SDLC (Iterative)

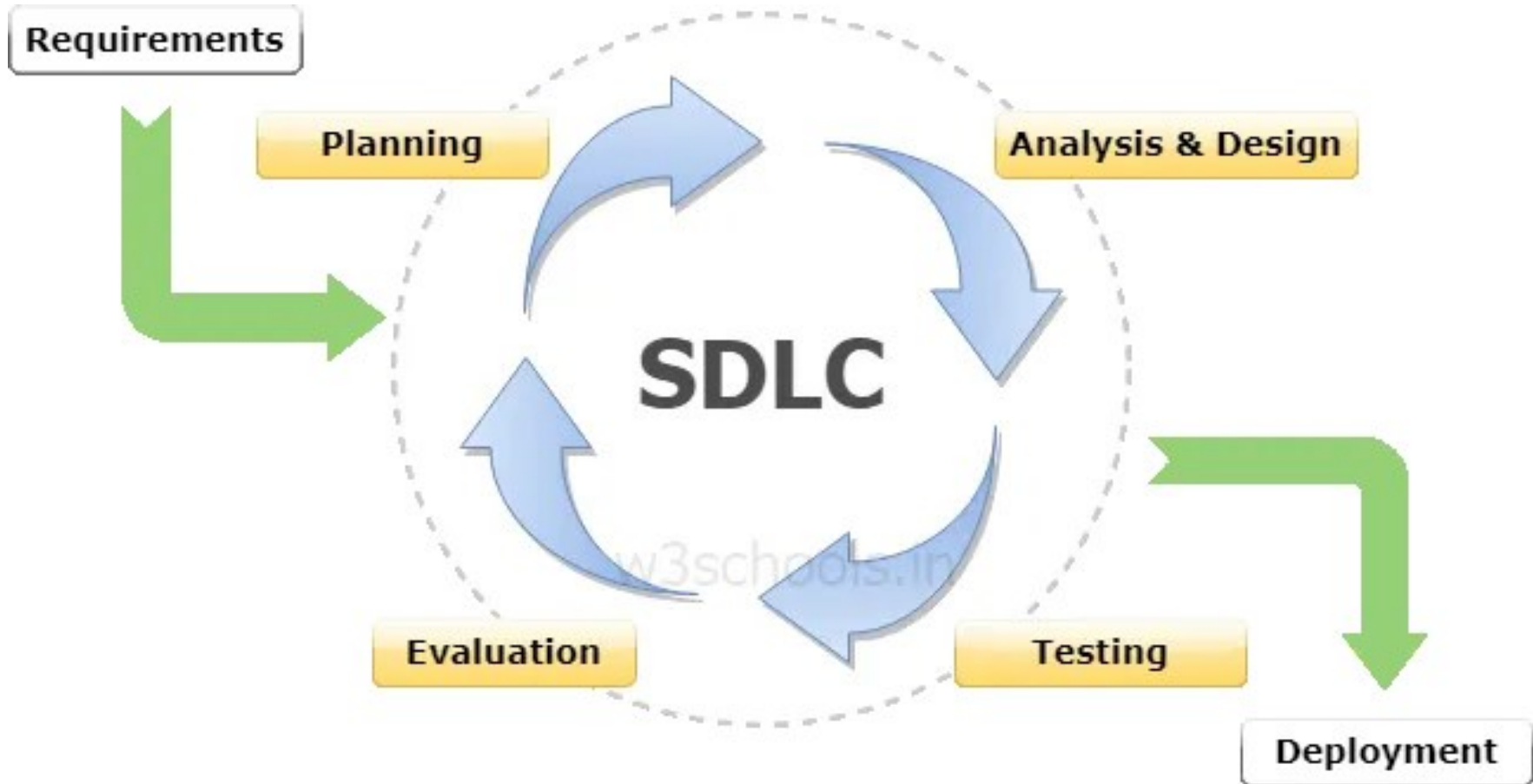


Fig: SDLC Iterative Model

Source: <https://www.w3schools.in/sdlc-tutorial/iterative-model/>

PAW: SDLC (V)

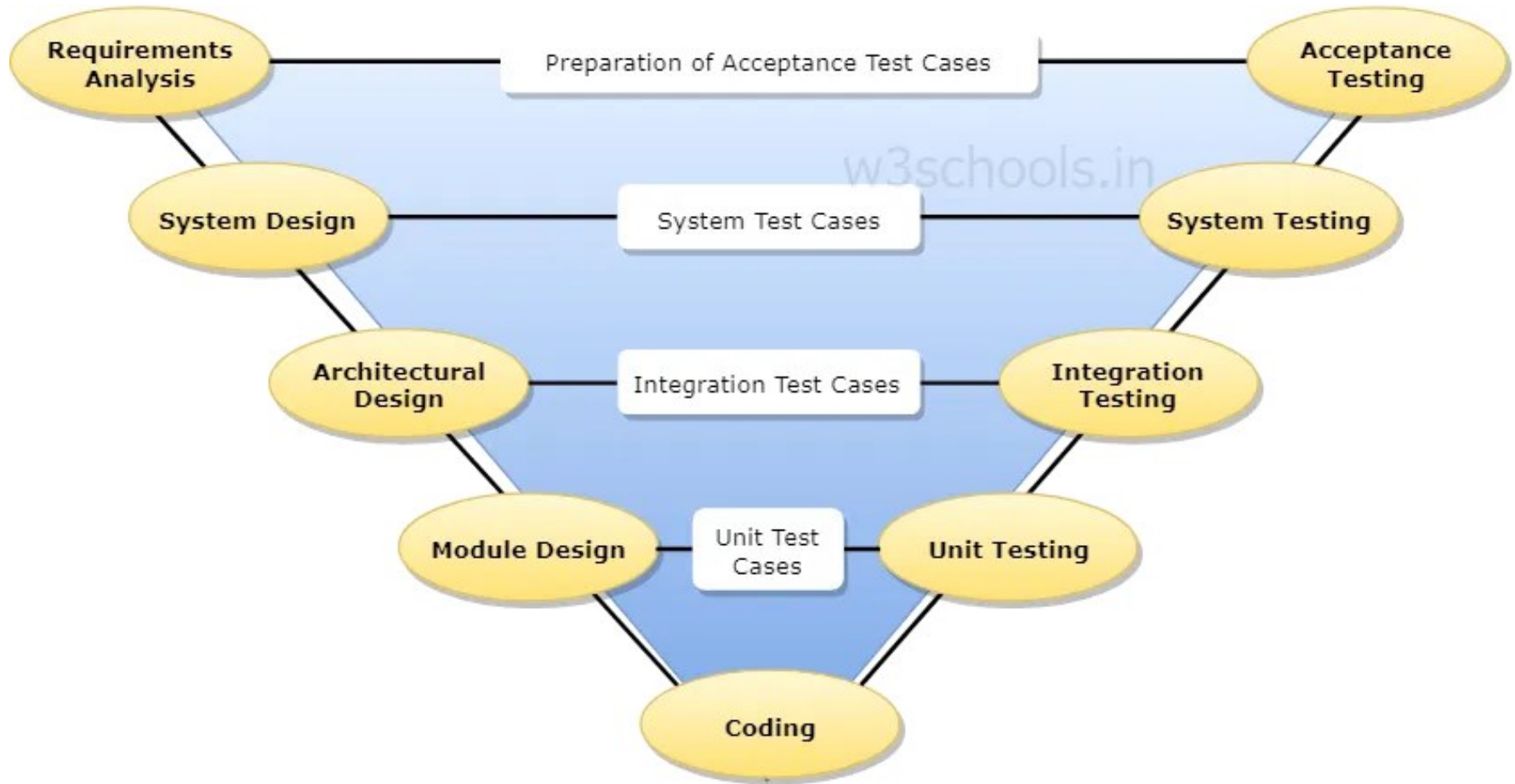


Fig: The Design of the SDLC V-Model

Source: <https://www.w3schools.in/sdlc-tutorial/v-model/>

PAW: SDLC (Agile)

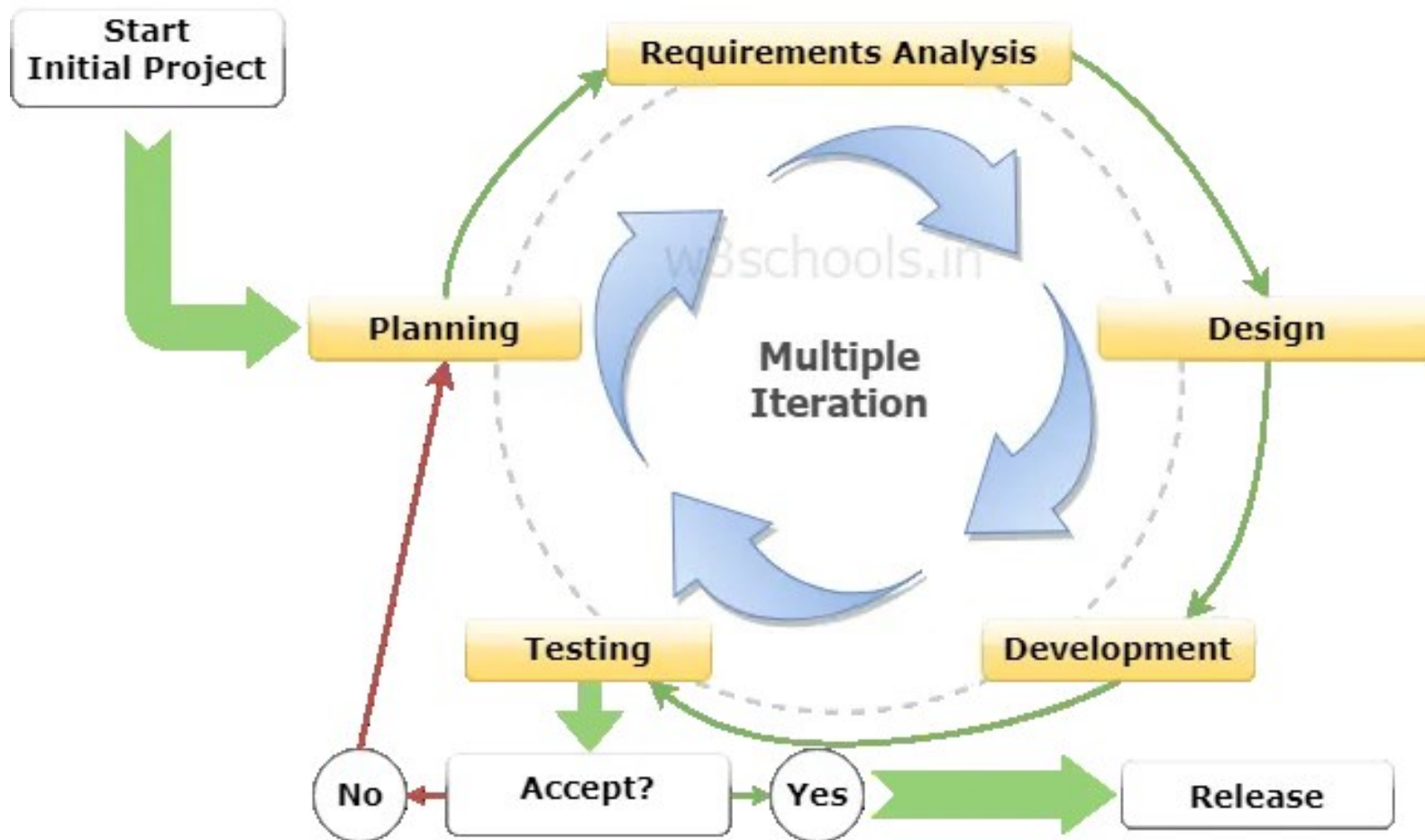


Fig: SDLC Agile Software Development Model

Source: <https://www.w3schools.in/sdlc-tutorial/agile-model/>

PAW: Stakeholder



OPEN RECRUITMENT

WEB DEVELOPER

Web Developer at Thunderlabs Indonesia

- Familiar with HTML, PHP, CSS, JS, SQL
- Having knowledge in noSQL and Laravel

Requirement :

- Bachelor's degree in information technology or related fields
- Familiar with HTML, PHP, CSS, JS, SQL
- Having knowledge in NoSQL and Laravel Framework will be a plus
- Love challenge
- Eager to learn something new
- Capable to work in team
- Appreciate deadline & well-documentation

JOB VACANCY

WEB DEVELOPER

- PHP, HTML, CSS, CMS, Database

Requirement :

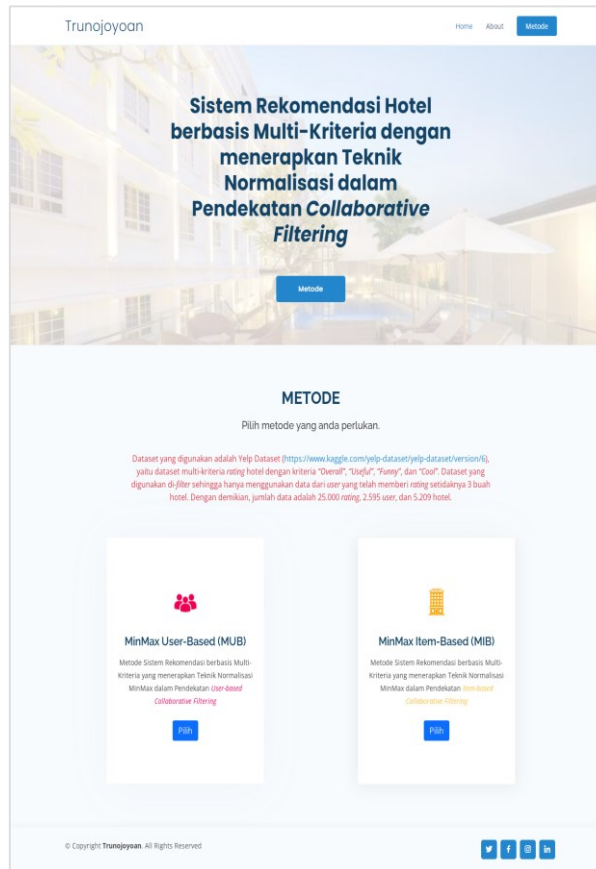
- Pendidikan Terakhir D3 / S1 jurusan terkait
- Memahami: HTML (HTML5), CSS (CSS3), PHP, JavaScript (jQuery) (Wajib)
- Menguasai Framework Codeigniter dan Bootstrap
- Pengalaman minimal 1 tahun, fresh graduate dipersilahkan
- Bersedia ditempatkan di Yogyakarta
- Menguasai Bahasa Inggris (Minimal Pasif)
- Target and Detail Oriented
- Bisa bekerja dalam tim

PAW: Contoh Proyek

URL: <https://trunojoyoan.com/>



Website Lamongan Tourism

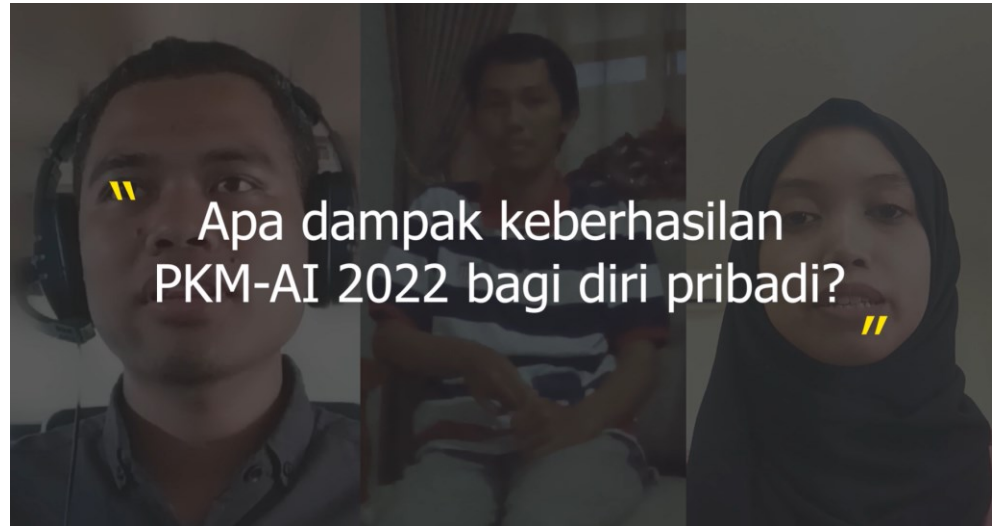


Prototipe Sistem Rekomendasi Hotel



Sistem Antrian Terapi (SMART)

PAW: Prestasi Mahasiswa



Apa dampak keberhasilan
PKM-AI 2022 bagi diri pribadi?

Prestasi dan Testimoni PKM-AI 2022 Prodi Teknik Informatika UTM:

<https://youtu.be/roQOKpUvXIg>

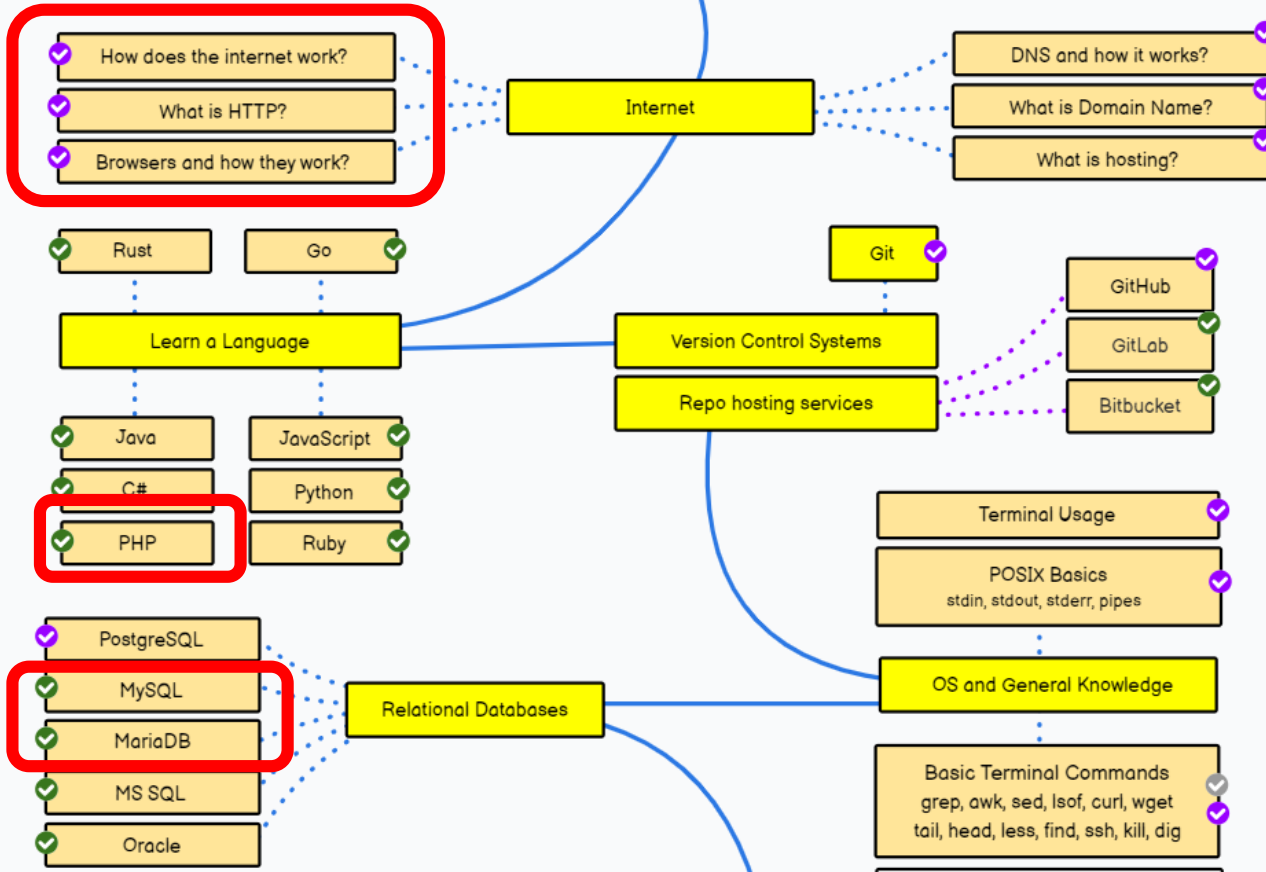
PAW: Roadmap (Back-end Developer)

- ✔ Personal Recommendation / Opinion
- ✔ Alternative Option - Pick this or purple
- ✔ Order in roadmap not strict (Learn anytime)
- I wouldn't recommend

Find the detailed version of this roadmap along with resources and other roadmaps

<https://roadmap.sh>

Backend



Source: <https://roadmap.sh/backend>



there is
ALWAYS
something to
BE GRATEFUL
for



whilehowsnapping.com

**SURROUND
YOURSELF
WITH POSITIVE
PEOPLE WHO
ARE GOING TO
PUSH YOU
TOWARD
GREATNESS.**

PictureQuotes.com