Laporan On Job Training PT. Global Service Indonesia

Research & Development Innovation Division

Rafly Rizqullah Yusuf
24 Desember 2024

TENTANG SAYA

RAFLY RIZQULLAH YUSUF

NIS : 80224023
Trenggalek, Jawa Timur

Placement
PT. Global Service Indonesia

At Team
Digital Solution

At Divission
Research and Development
Innovation Division

SCHOOL

GSI
Global Service Indonesia

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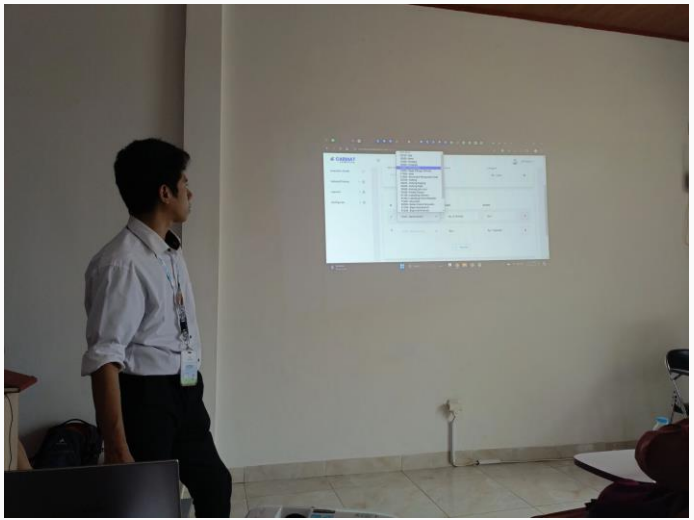
CéRMAT By GSI x UNITED TRACTORS member of ASTRA

CERMAT Accounting adalah aplikasi web yang dirancang untuk memudahkan para UMKM dalam mengelola bisnis mereka.

1. POS *(Point Of Sales)*
2. Manajemen Stok
3. Laporan Keuangan
4. Laporan Hutang Piutang
5. Pencatatan Jurnal



Enroll Cermat pada 7 Agustus 2024 di YDBA

https://cermat.unitedtractors.com/
https://www.linkedin.com/feed/update/urn:li:activity:7226854635431411712/

Baru dua bulan setelah rilis, Cermat sudah mengalami banyak masalah dan isu pada aplikasinya, antara lain:

1. **Antarmuka pengguna (UI)** yang berantakan.
2. **Flow aplikasi** yang tidak teratur dan sulit diikuti.
3. **Maintenance** aplikasi yang tidak berjalan lancar.

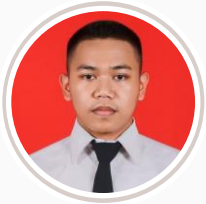
Selain itu, Lead R&D sekaligus PIC proyek ini, telah mengundurkan diri pada akhir bulan September kemarin.

Oleh karena itu, saya bersama Lead R&D baru serta salah satu rekan saya memutuskan untuk melakukan **revamp** dan membangun ulang Website Application Cermat.

Anggota Tim

Nayaka Syahreal Al Kanaka
Leader of RND

Rafly Rizqullah Yusuf
Fullstack Developer



Muhammad Viko Ramayudha
Fullstack Developer

Konfidensial

Beberapa dokumen pada project Cermat Accounting seperti Blueprint, Functional Specification Document (FSD), Entity Relationship Diagram (ERD), Product Specification Document (PRD) bersifat rahasia dan merupakan informasi konfidensial perusahaan.

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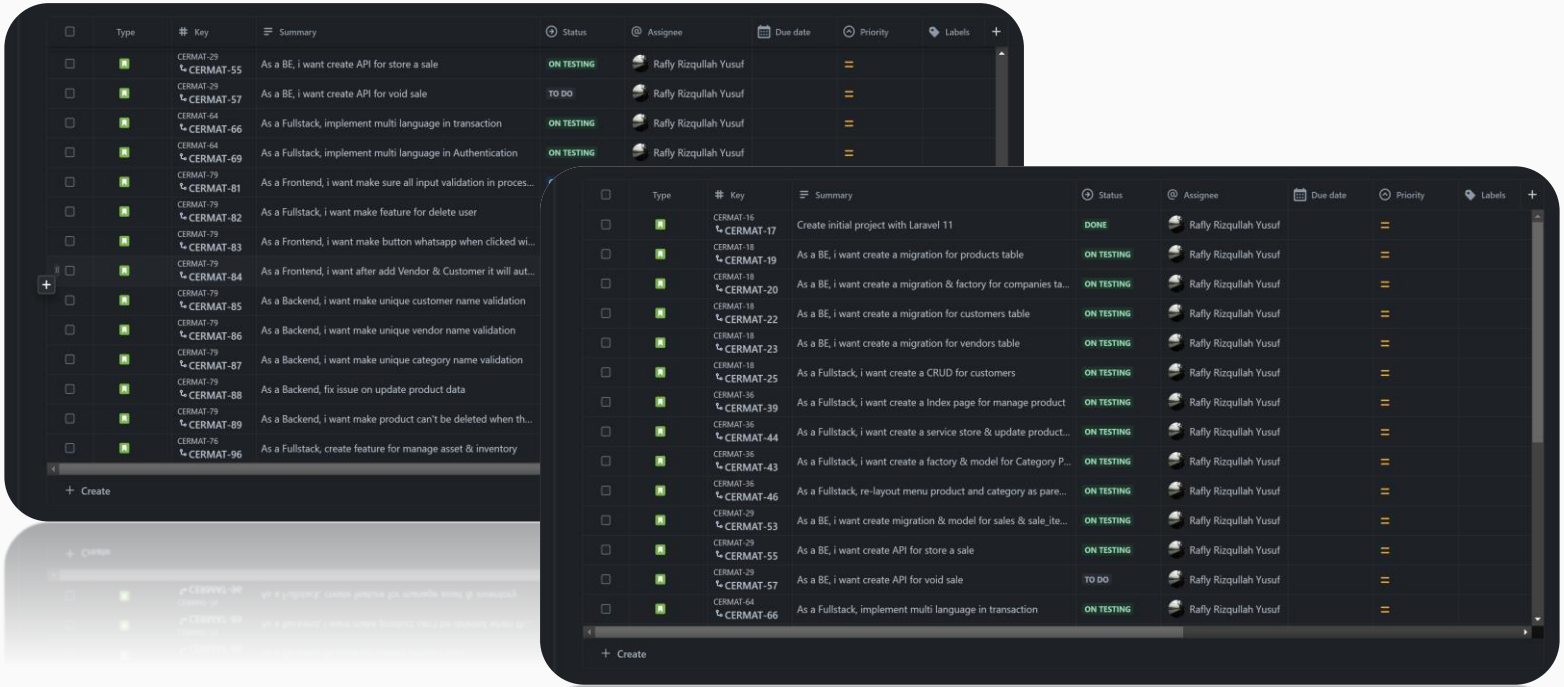
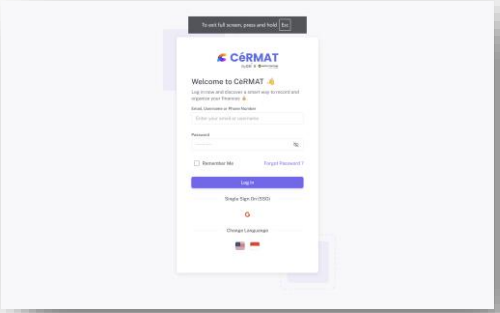
Timeframe

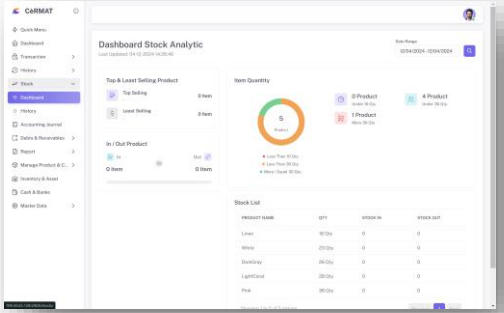


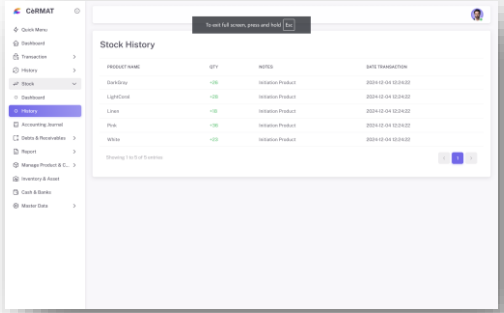
Type	Key	Summary	Status	Assignee	Due date	Priority	Labels
	CERMAT-29 CERMAT-55	As a BE, i want create API for store a sale	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-29 CERMAT-57	As a BE, i want create API for void sale	TO DO	Rafly Rizqullah Yusuf		=	
	CERMAT-64 CERMAT-66	As a Fullstack, implement multi language in transaction	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-64 CERMAT-69	As a Fullstack, implement multi language in Authentication	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-79 CERMAT-81	As a Frontend, i want make sure all input validation in proces...					
	CERMAT-79 CERMAT-82	As a Fullstack, i want make feature for delete user					
	CERMAT-79 CERMAT-83	As a Frontend, i want make button whatsapp when clicked wi...					
	CERMAT-79 CERMAT-84	As a Frontend, i want after add Vendor & Customer it will aut...					
	CERMAT-79 CERMAT-85	As a Backend, i want make unique customer name validation					
	CERMAT-79 CERMAT-86	As a Backend, i want make unique vendor name validation					
	CERMAT-79 CERMAT-87	As a Backend, i want make unique category name validation					
	CERMAT-79 CERMAT-88	As a Backend, fix issue on update product data					
	CERMAT-79 CERMAT-89	As a Backend, i want make product can't be deleted when th...					
	CERMAT-76 CERMAT-96	As a Fullstack, create feature for manage asset & inventory					
+ Create							

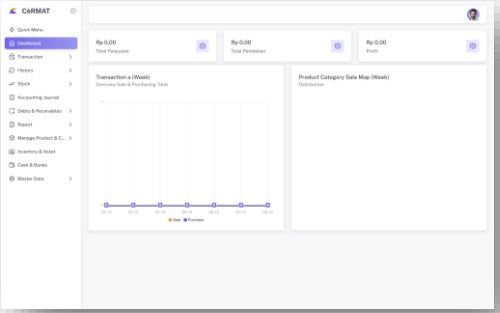
Type	Key	Summary	Status	Assignee	Due date	Priority	Labels
	CERMAT-16 CERMAT-17	Create initial project with Laravel 11	DONE	Rafly Rizqullah Yusuf		=	
	CERMAT-18 CERMAT-19	As a BE, i want create a migration for products table	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-18 CERMAT-20	As a BE, i want create a migration & factory for companies ta...	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-18 CERMAT-22	As a BE, i want create a migration for customers table	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-18 CERMAT-23	As a BE, i want create a migration for vendors table	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-18 CERMAT-25	As a Fullstack, i want create a CRUD for customers	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-36 CERMAT-39	As a Fullstack, i want create a Index page for manage product	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-36 CERMAT-44	As a Fullstack, i want create a service store & update product...	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-36 CERMAT-43	As a Fullstack, i want create a factory & model for Category P...	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-36 CERMAT-46	As a Fullstack, re-layout menu product and category as pare...	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-29 CERMAT-53	As a BE, i want create migration & model for sales & sale_ite...	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-29 CERMAT-55	As a BE, i want create API for store a sale	ON TESTING	Rafly Rizqullah Yusuf		=	
	CERMAT-29 CERMAT-57	As a BE, i want create API for void sale	TO DO	Rafly Rizqullah Yusuf		=	
	CERMAT-64 CERMAT-66	As a Fullstack, implement multi language in transaction	ON TESTING	Rafly Rizqullah Yusuf		=	
+ Create							

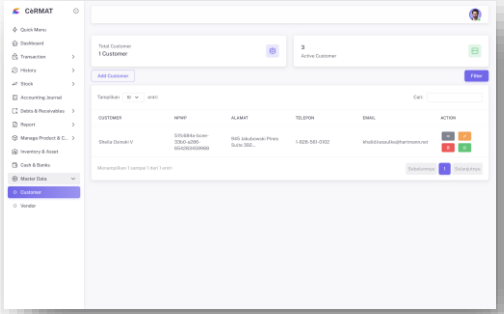
Hasil Project

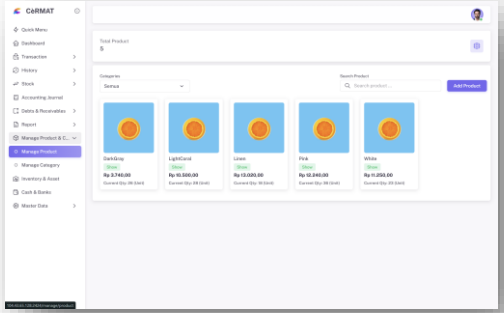












preview : http://104.43.65.128:2424/login

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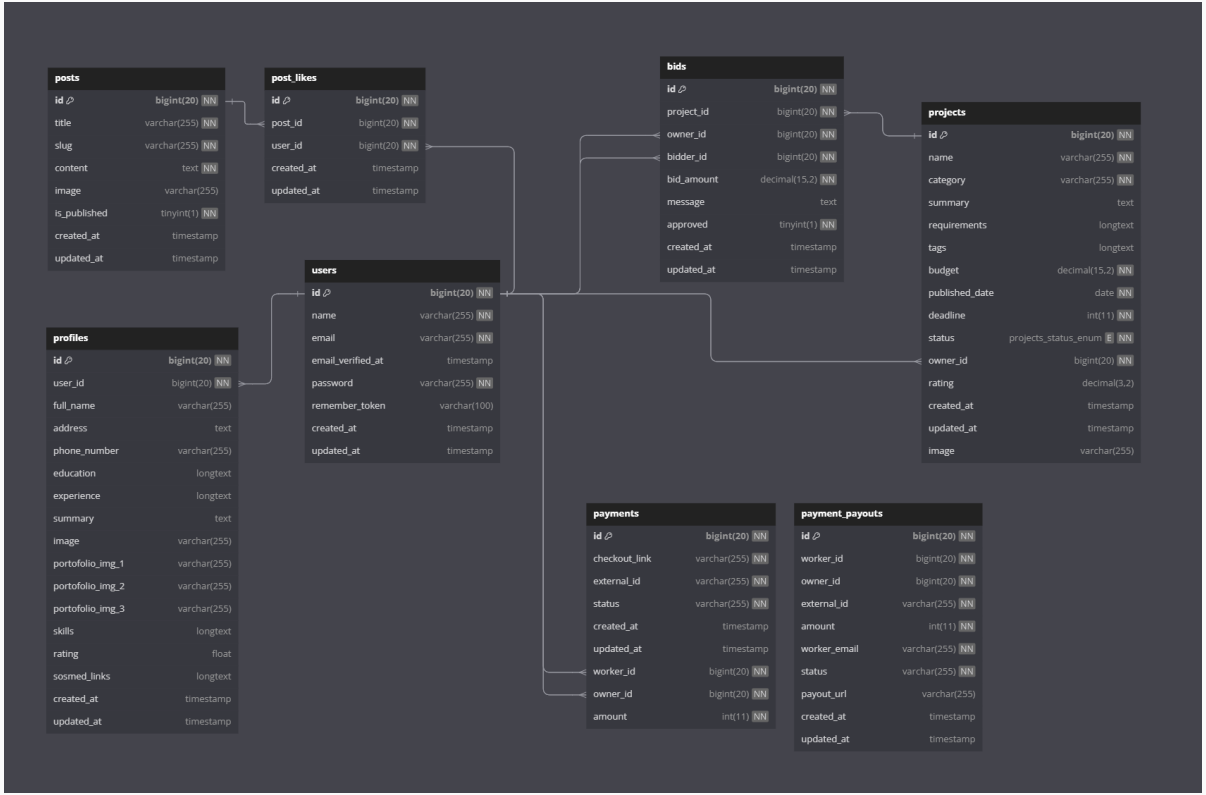
WORKPACE

Workpace adalah aplikasi web berupa portal freelancer yang mempertemukan orang yang memiliki proyek yang ingin dikerjakan (owner) dengan orang yang akan mengerjakan proyek tersebut (worker/freelancer).

Workpace pada awalnya hanyalah sebuah ide abstrak dari salah satu ide dari program GNOVATION, GSI Innovation, dan hingga kini belum memiliki dokumen untuk pengembangannya. Lead dari RND yang lama menyarankan saya untuk mengembangkan Workpace.

ERD Workpace



Timeframe

NO	HARI	TANGGAL	Status	KETERANGAN	PARAF
1	Kamis	01/08/2024	WFO	Onboarding to GSI, Introduction Session	
2	Jumat	02/08/2024	WFO	Introduction to Laravel Framework	
3	Senin	05/08/2024	WFO	Practicing Laravel Development (Prototyping Project Laravel)	
4	Selasa	06/08/2024	WFO	Develop Workpace Core Application	
5	Rabu	07/08/2024	WFO	Develop Workpace, Enroll Cermat Accounting Web Aplication to UMKM Fostered by United Tractors in LPB Cakung	
6	Kamis	08/08/2024	WFO	Diving into Project Management.	
7	Jumat	09/08/2024	WFO	Learning about Work Breakdown Stucture, Tecnical Specification Document.	
8	Senin	12/08/2024	WFO	Learning: Project Management Essentials.	
9	Selasa	13/08/2024	WFO	Learning Project Management Tools: Trello, Monday, ClickUp.	
10	Rabu	14/08/2024	WFO	Develop Workpace	
11	Kamis	15/08/2024	WFO	Develop Workpace: Portal Freelancer	
12	Jumat	16/08/2024	WFO	August Competition	
13	Senin	19/08/2024	WFO	Develop Workpace : Converting Html code to Blade	
14	Selasa	20/08/2024	WFO	Helping Bussiness to Update GSI Website	
15	Rabu	21/08/2024	WFO	Develop Workpace : Make Login and Register and Authentication	
16	Kamis	22/08/2024	WFO	Develop Workpace : Refactoring, Separating Navbar and Footer	
17	Jumat	23/08/2024	WFO	Develop Workpace : Updating Project Information	
18	Senin	26/08/2024	WFO	Helping Bussiness to Update GSI Website	
19	Selasa	27/08/2024	WFO	Develop Workpace : Matching Looping Projects Data,	
20	Rabu	28/08/2024	WFO	Develop Workpace : Fixing Tags Input	
21	Kamis	29/08/2024		SICK LEAVE	
22	Jumat	30/08/2024	WFO	Develop Workpace : Add Pagination	

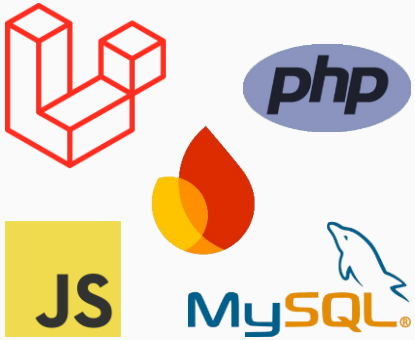
NO	HARI	TANGGAL	Status	KETERANGAN	PARAF
1	Senin	9/2/2024	WFO	GSI News - Global Service Website Update	
2	Selasa	9/3/2024	WFO	Develop Workpace : Search Input	
3	Rabu	9/4/2024	WFO	Develop Workpace : Search and Filter Input	
4	Kamis	9/5/2024	WFH	Develop Workpace : Profile User Information	
5	Jumat	9/6/2024	WFO	Develop Workpace : Profile User Authorization Owned Project	
6	Senin	9/9/2024	WFO	Develop Workpace : Bidding Project Features	
7	Selasa	9/10/2024	WFO	Develop Workpace : Bidding Project, Authorization for Owner and Bidder	
8	Rabu	9/11/2024	WFO	Develop Workpace : Image Upload	
9	Kamis	9/12/2024	WFO	Develop Workpace : Verification Email	
10	Jumat	9/13/2024	WFO	Develop Workpace : Blog	
11	Senin	9/16/2024	WFO	Develop Workpace : Optimizing error page and blogs	
12	Selasa	9/17/2024	WFO	Develop Workpace : Testing Google Drive Upload	
13	Rabu	9/18/2024	WFO	Develop Workpace : Improve OTP Email Verificatin view	
14	Kamis	9/19/2024	WFO	Develop Workpace : Firebase configuration as a realtime database for chat features	
15	Jumat	9/20/2024	WFO	Develop Workpace : Optimizing chat features	
16	Senin	9/23/2024	WFO	Introduction to Flutter in Google IDX	
17	Selasa	9/24/2024	WFO	Develop Workpace : User Search and Filter	
18	Rabu	9/25/2024	WFO	Develop Workpace : About Page and Footer update	
19	Kamis	9/26/2024	WFO	Develop Workpace : Updating Project Closed and Unapproved Project	
20	Jumat	9/27/2024	WFO	Introduction Xendit Paymet Gateway	

Features

1. **Login SSO Google & Facebook** : Pengguna dapat login menggunakan akun Google atau Facebook.
2. **OTP Verifikasi Email** : Verifikasi email melalui kode OTP.
3. **Bidding *(tawar – menawar)*** : Mengajukan penawaran harga untuk proyek.
4. **Realtime Chat** : Komunikasi langsung antara klien dan freelancer.
5. **Deposit / Pembayaran** : Sistem pembayaran aman dengan opsi deposit.
6. **Portofolio** : Menampilkan karya atau proyek yang telah selesai.
7. **Pencarian Proyek dan Freelancer** : Freelancer dapat mencari proyek atau pekerjaan sesuai kategori dan klien dapat melihat freelancer yang berkompeten.
8. **Rating dan Review** : Memberikan ulasan dan rating untuk freelancer atau proyek klien.
9. **Blog** : Berbagi artikel, tips, atau berita terkait industri.
10. **History** : Riwayat transaksi dan proyek.

Technologies

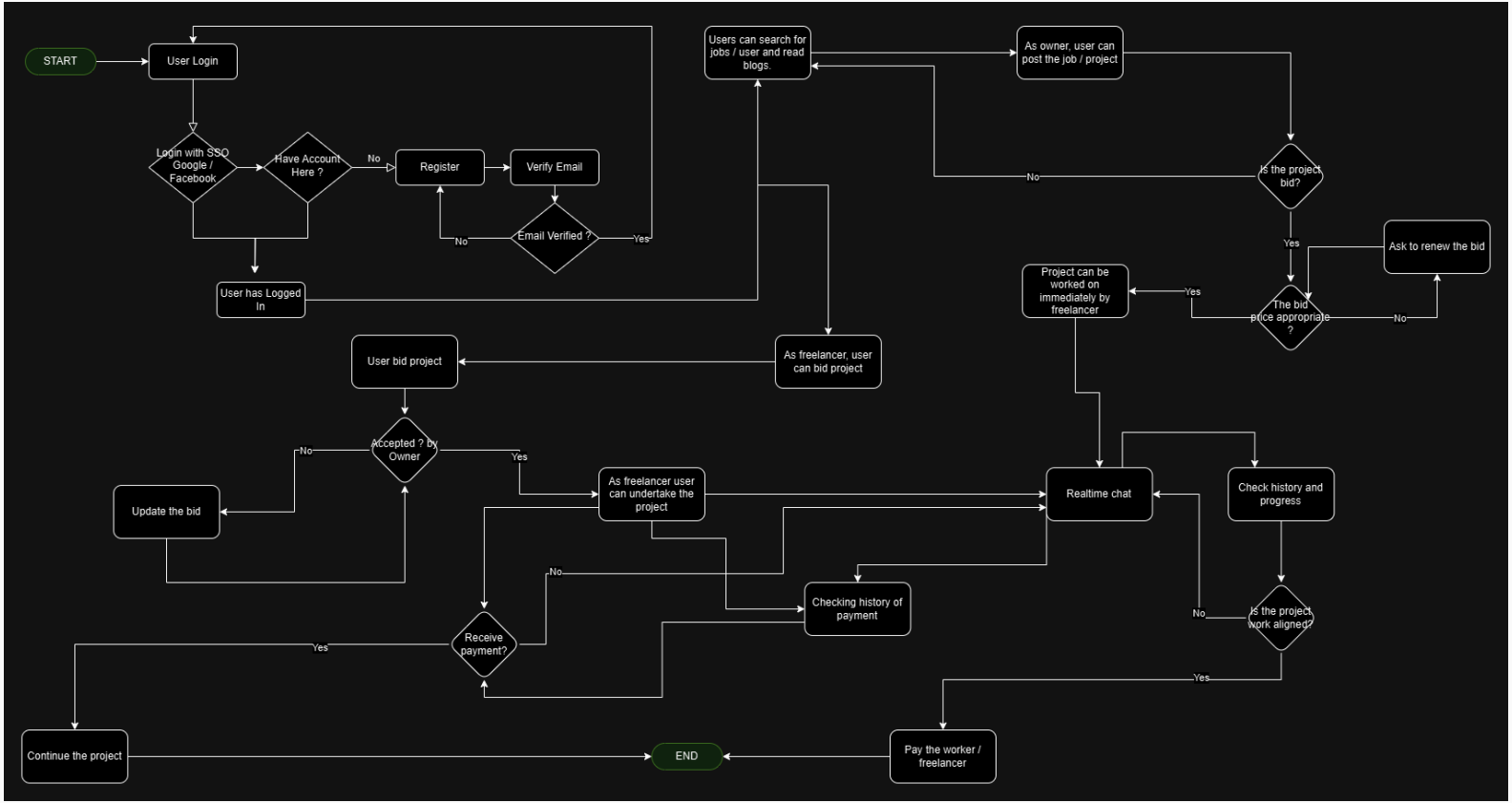
PROGRAMMING LANGUAGE & DATABASE



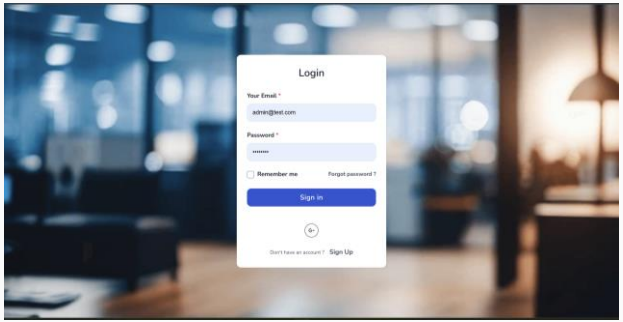
TOOLS AND IDE

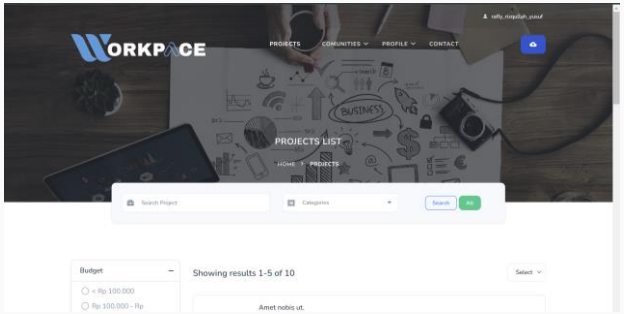
3rd PARTY LIBRARY

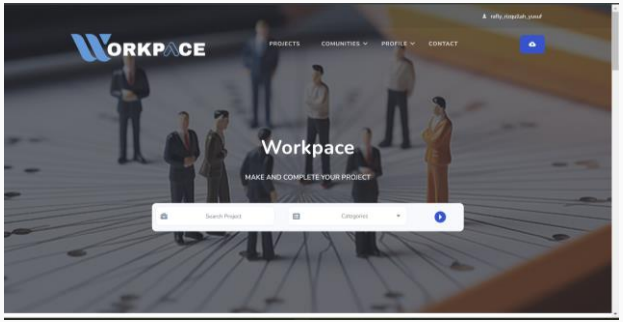
Flowchart

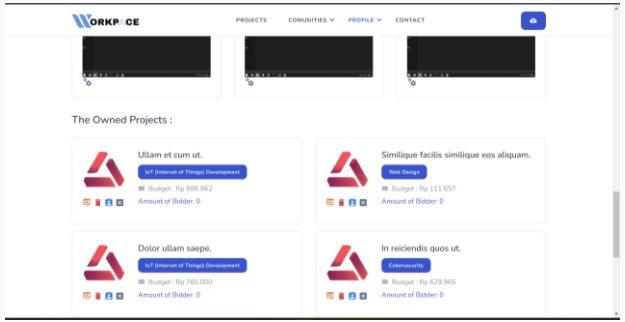

START
User Login
Login with SSO Google / Facebook
Have Account Here ?
No
Register
Verify Email
Email Verified ?
No
Yes
User has Logged In
Users can search for jobs / user and read blogs.
As owner, user can post the job / project
Is the project bid?
No
Yes
Ask to renew the bid
Project can be worked on immediately by freelancer
Yes
The bid price appropriate ?
No
As freelancer, user can bid project
User bid project
Accepted ? by Owner
No
Yes
Update the bid
As freelancer user can undertake the project
Realtime chat
Check history and progress
Checking history of payment
No
Receive payment?
Yes
No
Is the project work aligned?
Yes
Continue the project
END
Pay the worker / freelancer

Hasil Project









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Problematika

Masalah

- Pemahaman mengenai quality code, clean code, dan pengelolaan kode yang baik masih perlu ditingkatkan.
- Cenderung memprioritaskan penyelesaian tugas daripada kualitas kode.
- Komunikasi mengenai proyek kurang efektif.

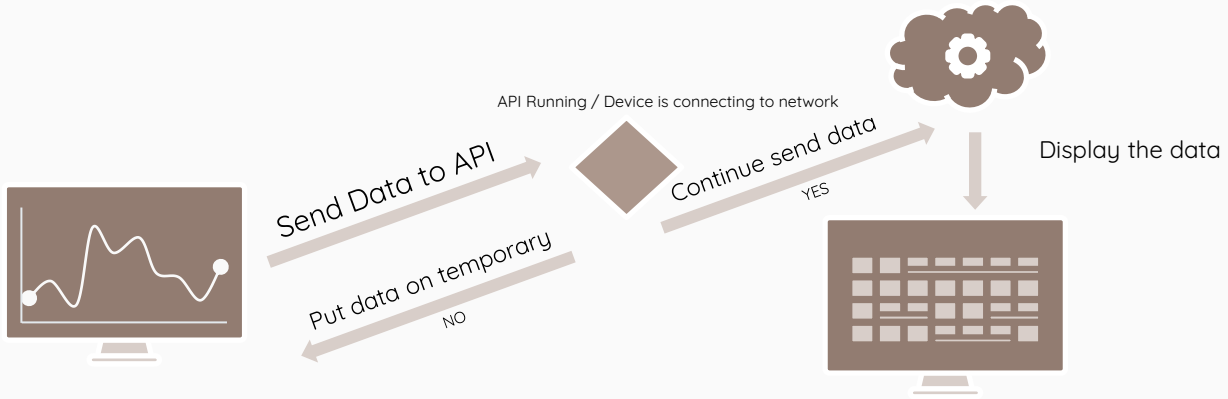
Dampak

1. Kurangnya akses dan pemeliharaan mengakibatkan kesulitan dalam mengingat lokasi penyimpanan kode.
2. Terdapat kebingungan terkait desain fitur, penempatan fitur, serta alur logika aplikasi
3. Kurangnya pemeliharaan atau maintenance juga menyebabkan banyak kerusakan pada library atau komponen pihak ketiga yang digunakan dalam kode.

Meskipun sempat berencana untuk melakukan refaktoring besar-besaran, saya memutuskan untuk menunda rencana tersebut hingga waktu yang lebih tepat.

SYSTEM SERVICE MONITORING

Salah satu inovasi dan gagasan dari Lead R&D saat ini, mengembangkan sistem untuk memonitor kondisi, situasi, dan status aset, khususnya laptop dan computer. Sistem akan berjalan di latar belakang sebagai layanan (service), sehingga tidak terdeteksi sebagai aplikasi.



```
{
  "DeviceName": "LAPTOP-BQV6RM86",
  "BatteryInfo": {
    "BatteryStatus": 2,
    "EstimatedChargeRemaining": "40%",
    "EstimatedRunTime": "06:28:00",
    "IsCharging": true,
    "BatteryStatusDescription": "Connected and charging (sedang diisi)"
  },
  "SystemInfo": {
    "LastBootTime": "2024-11-17T17:01:33.5+07:00",
    "SystemUptime": "00:27:43.3437009"
  },
  "DiskInfo": {
    "TotalSize": "231 GB",
    "FreeSpace": "56 GB",
    "UsedSpace": "174 GB",
    "PercentUsed": "75 %"
  },
  "WiFiInfo": {
    "SSID": “GSI",
    "State": "connected",
    "SignalQuality": "93%",
    "RadioType": "802.11ac",
    "Authentication": "WPA2-Personal"
  },
  "TemperatureInfo": {
    "Temperature": 0
  },
  "Created_At": "17-November-2024 17:29:16",
  "SendToApiOnTime": false
}
```

Service System

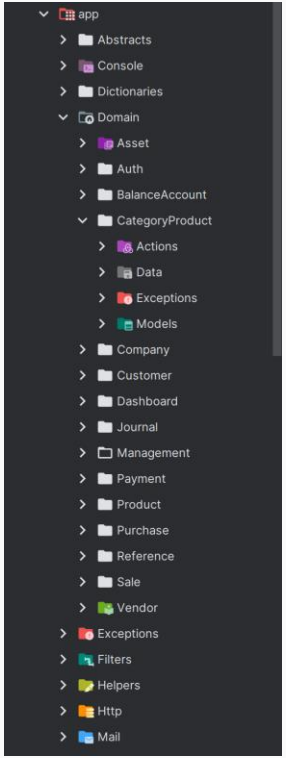
.NET Core

API & Database

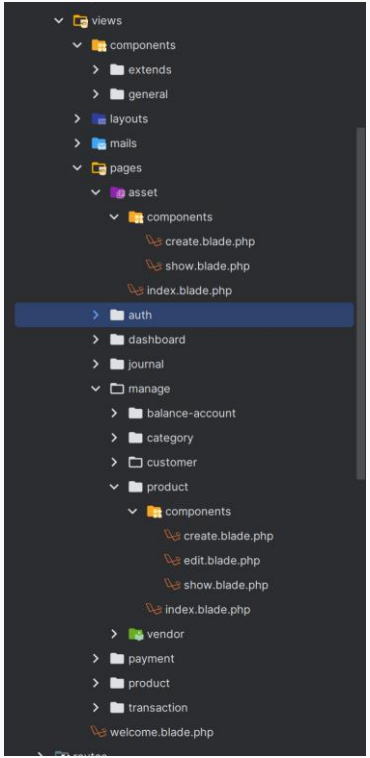
Monitoring Display
(PLANNING)

KESIMPULAN

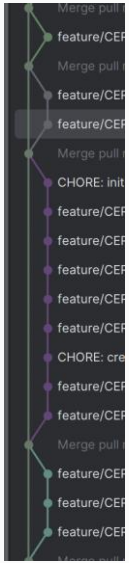
Domain Drive Design



Consistent Naming



Commit Message



Using Git properly and correctly, and how to avoid conflicts

SARAN & MASUKAN

Thanks!

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https://raflyasligalek.vercel.app