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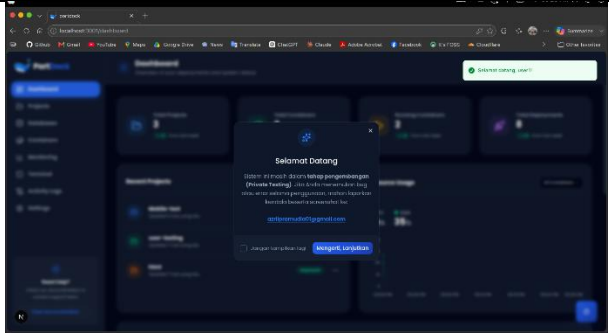
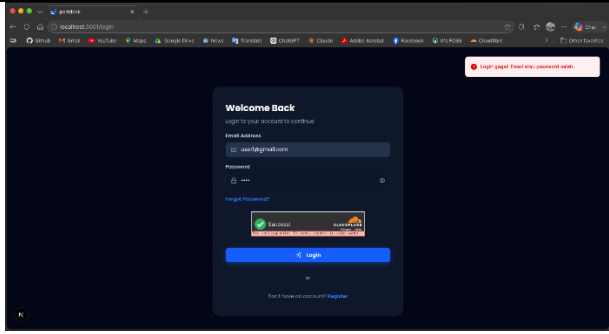
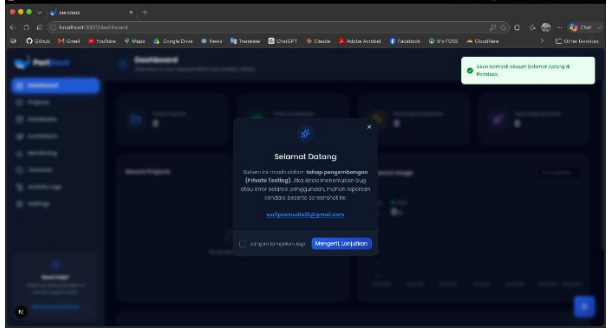
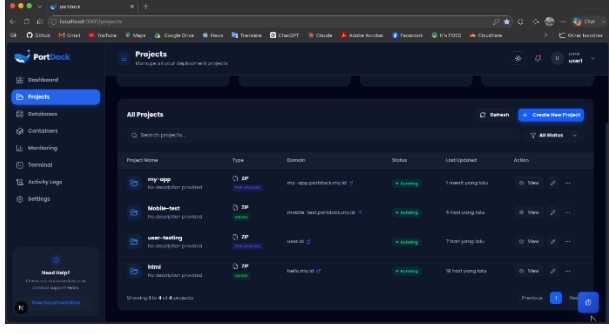
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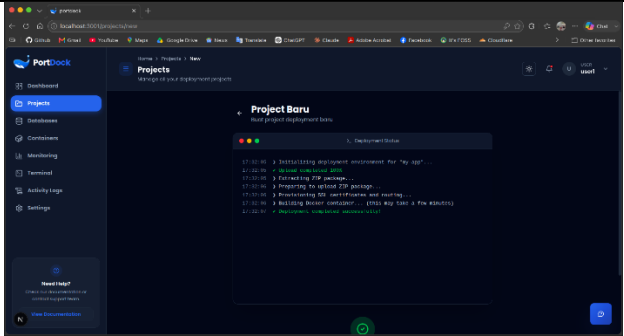
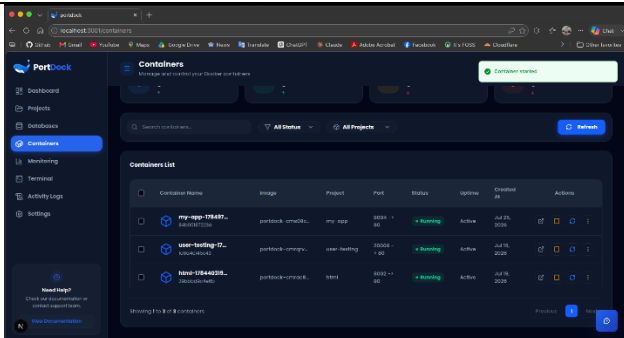
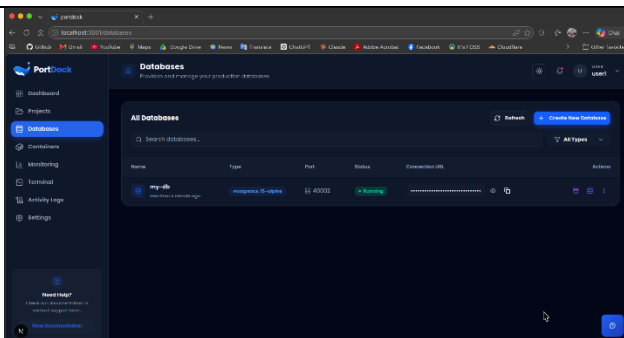
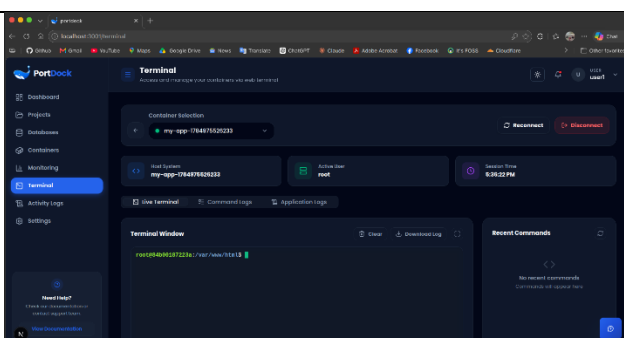
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LAMPIRAN

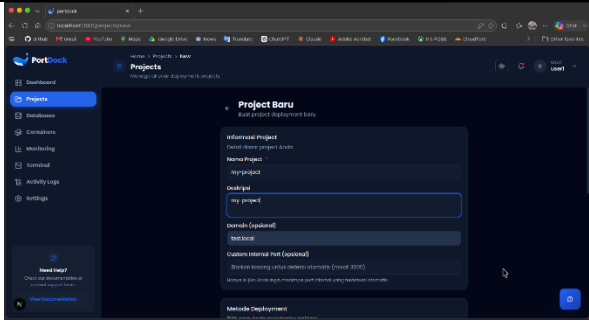
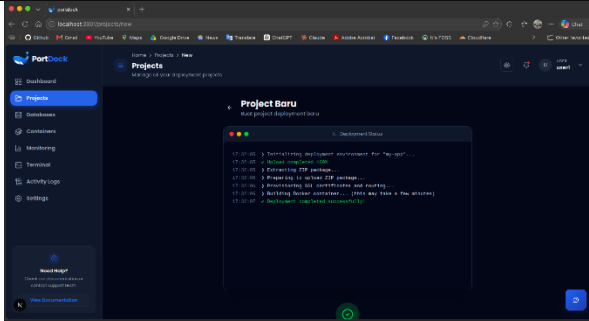
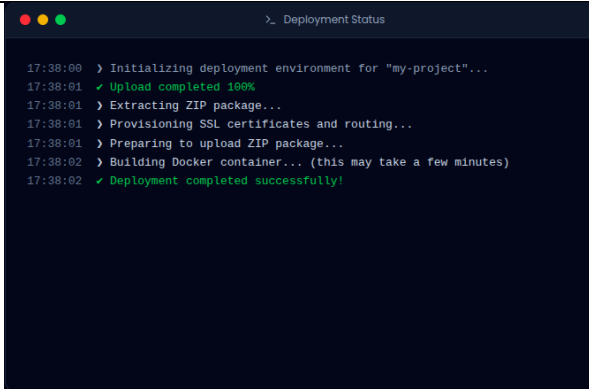
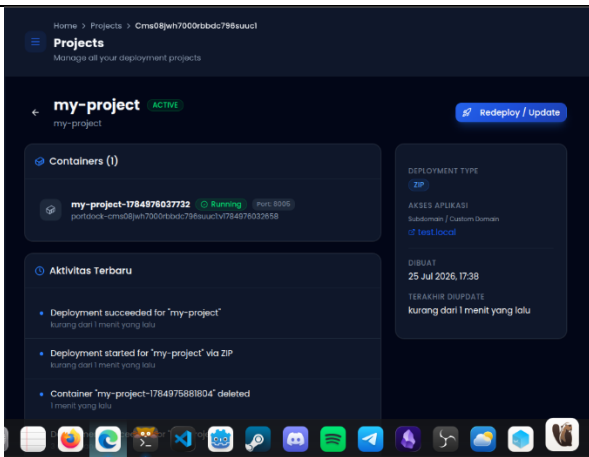
Lampiran 1 Dokumentasi Pengujian Black Box

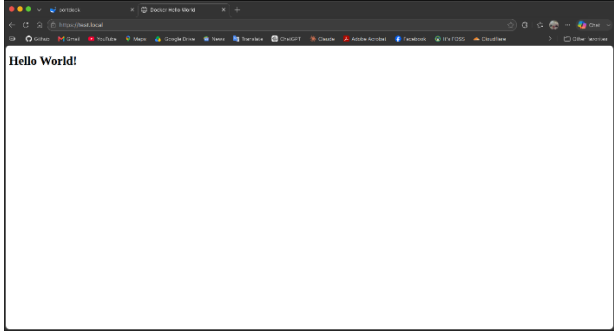
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1	Login Berhasil	Berhasil	
2.	Login gagal	Berhasil	
3.	Registrasi akun	Berhasil	
4.	Membuat Project	Berhasil	

5.	Deploy Project	Berhasil	
6.	Menjalankan Container	Berhasil	
7.	Membuat Database	Berhasil	
8.	Web Terminal	Berhasil	

Tabel A.1 Dokumentasi Pengujian Black Box

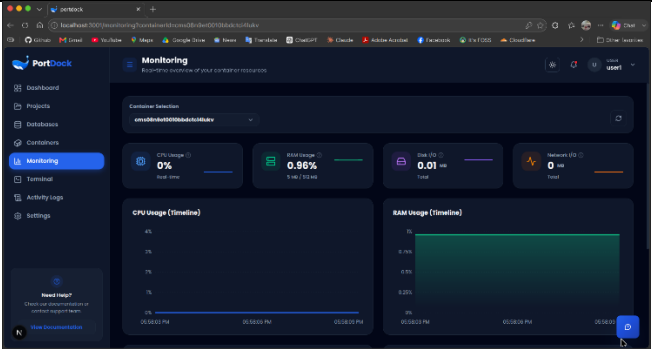
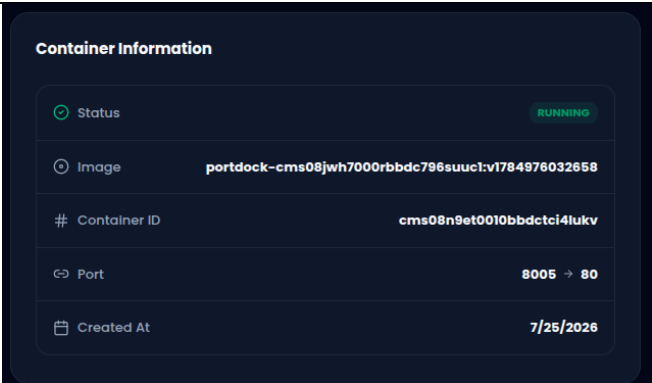
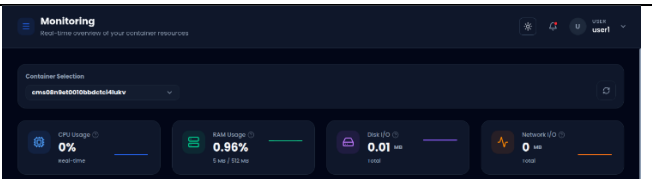
Lampiran 2 Dokumentasi Pengujian Deployment

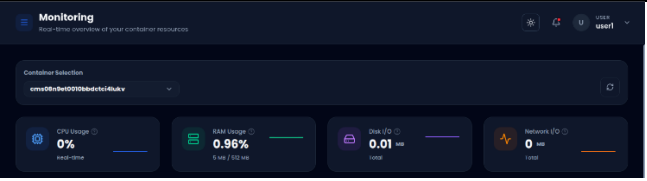
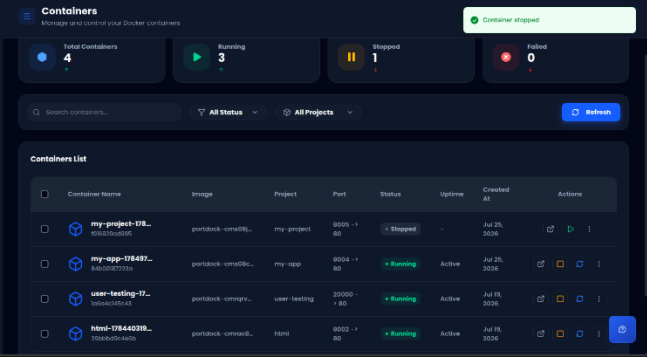
No	Pengujian	Hasil	Dokumentasi
1	Membuat Project	Berhasil	
2.	Deployment	Berhasil	
3.	Build Docker Image	Berhasil	
4.	Membuat Container	Berhasil	

5.	Akses Domain	Berhasil	
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Tabel B.1 Dokumentasi Deployment

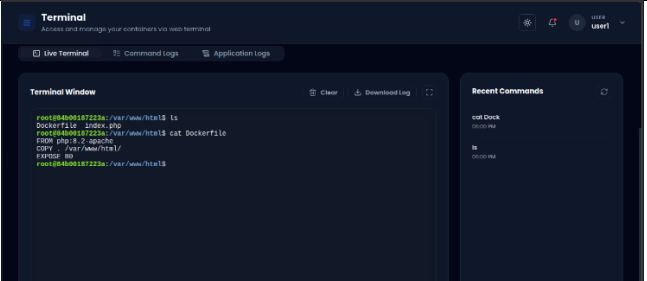
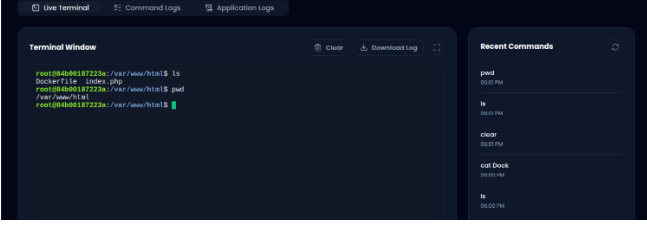
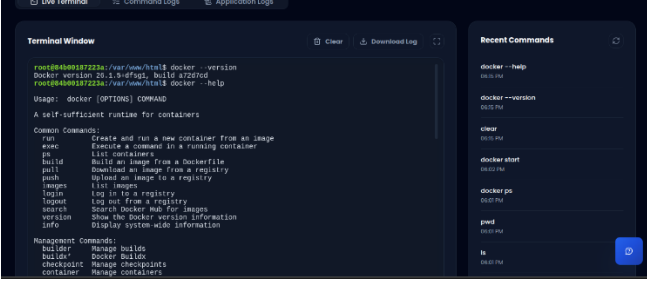
Lampiran 3 Dokumentasi Monitoring

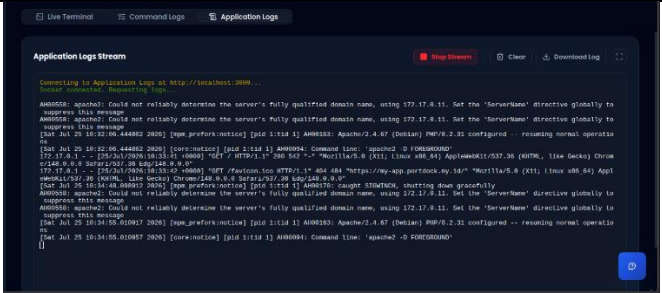
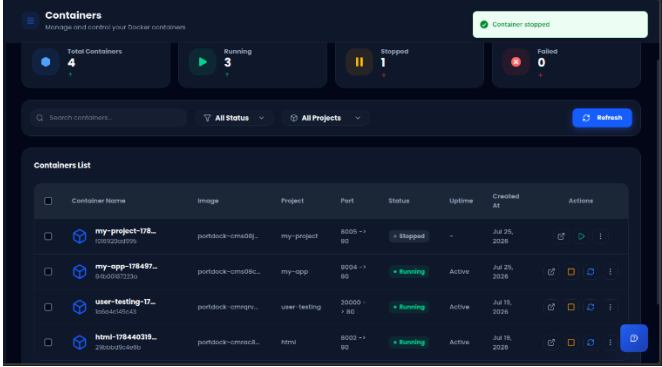
No	Pengujian	Hasil	Dokumentasi
1	Halaman Monitoring	Berhasil	
2.	Status Container	Berhasil	
3.	CPU Usage	Berhasil	

4.	Memory Usage	Berhasil	
5.	Stop Container	Berhasil	

Tabel C.1 Dokumentasi Pengujian Monitoring

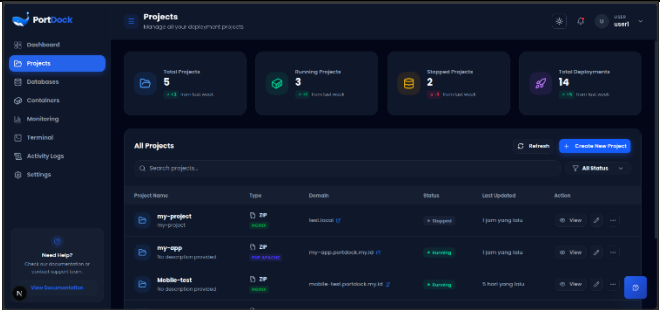
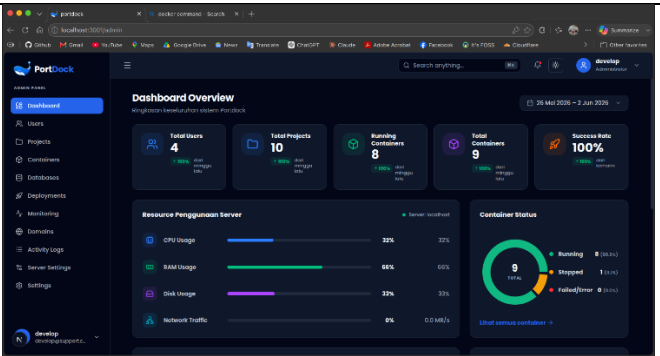
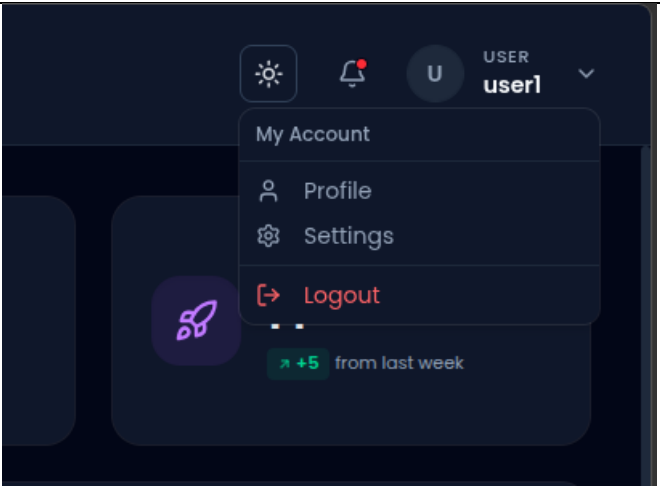
Lampiran 4 Dokumentasi Web Terminal

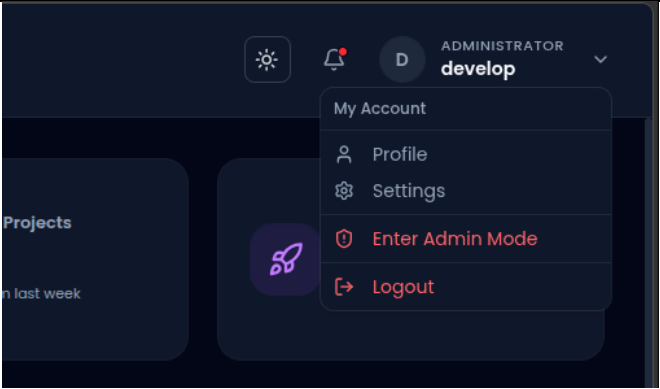
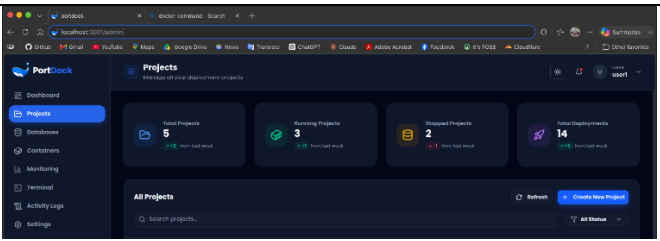
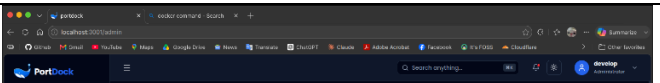
No	Pengujian	Hasil	Dokumentasi
1	Membuka Terminal	Berhasil	
2.	Command ls/pwd	Berhasil	
3.	Docker Command	Berhasil	

4.	Log Terminal	Berhasil	 The screenshot shows the 'Application Logs Stream' interface. It displays a log entry from an Apache server. The log text includes: 'AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.11. Set the 'ServerName' directive globally to suppress this message', 'AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.11. Set the 'ServerName' directive globally to suppress this message', and 'AH00558: [pid 1114] AH00558: Apache/2.4.67 (Ubuntu) PHP/7.2.31 configured -- resuming normal operations'. The interface also has buttons for 'Stop Stream', 'Clear', and 'Download'.
5.	Stop Container	Berhasil	 The screenshot shows the 'Containers' management interface. At the top, there are statistics: 'Total Containers: 4', 'Running: 3', 'Stopped: 1', and 'Failed: 0'. Below this is a 'Containers List' table with columns: Container Name, Image, Project, Port, Status, Uptime, Created At, and Actions. The table lists four containers: 'my-project-178...', 'my-app-178497...', 'user-testing-17...', and 'html-178440319...'. The 'my-app-178497...' container is highlighted with a green 'Running' status.

Tabel D.1 Dokumentasi Pengujian Web Terminal

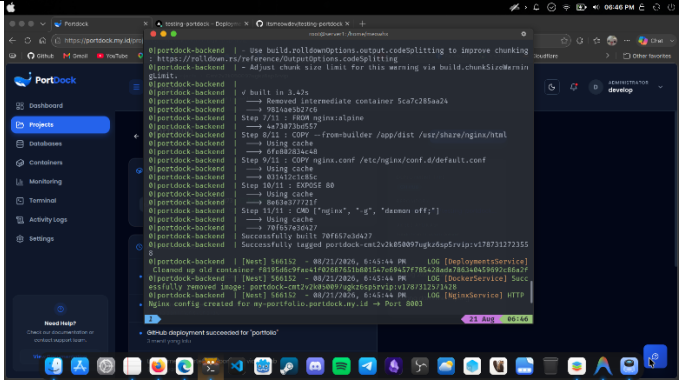
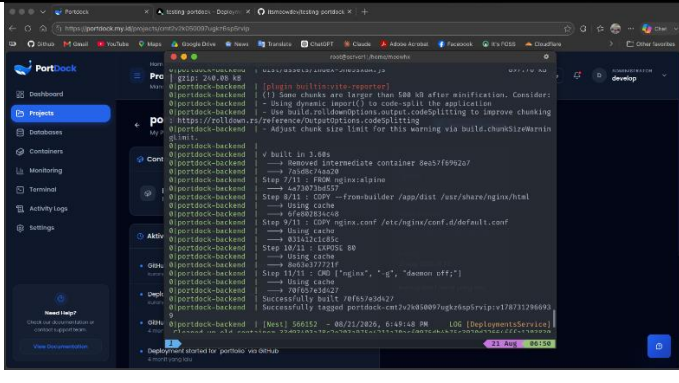
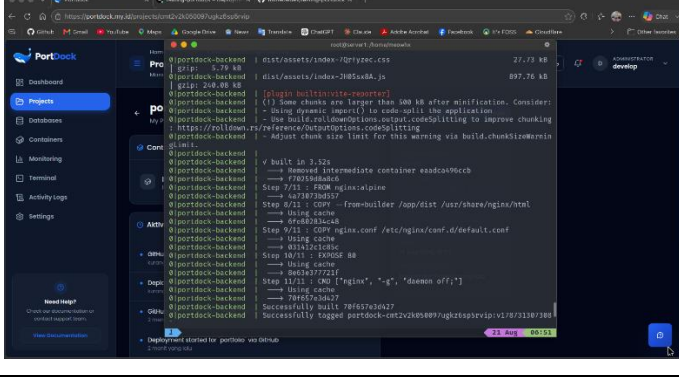
Lampiran 5 Dokumentasi Authentication dan Role

No	Pengujian	Hasil	Dokumentasi
1	Login USER	Berhasil	
2.	Login ADMIN	Berhasil	
3.	USER tidak bisa akses Admin	Berhasil	

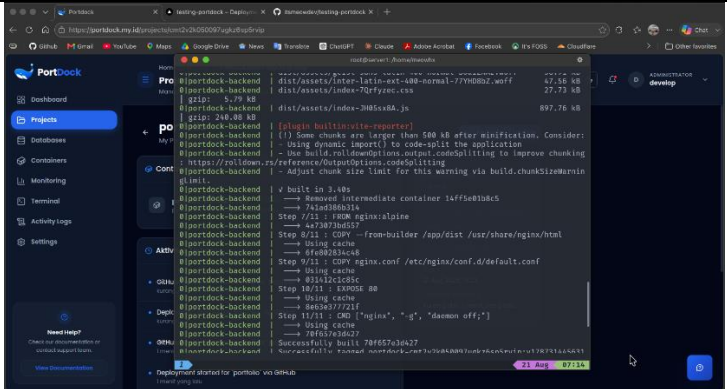
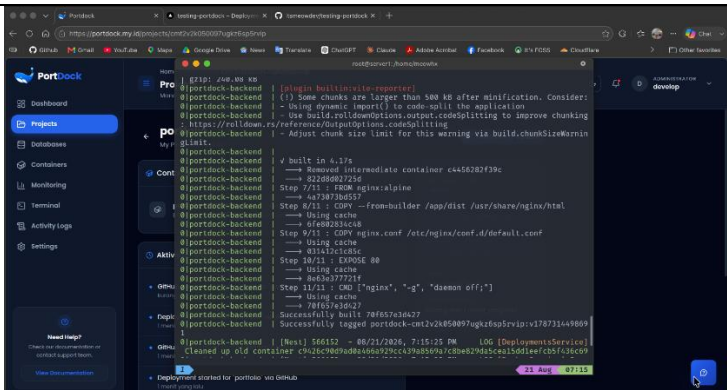
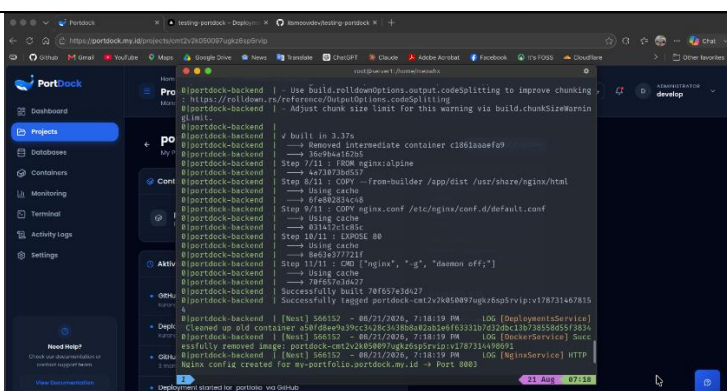
4.	ADMIN akses Admin	Berhasil	
5.	USER tidak bisa akses endpoint	Berhasil	
6.	ADMIN akses endpoint	Berhasil	

Tabel E.1 Dokumentasi Pengujian Authentication dan Role

Lampiran 6 Dokumentasi Pengujian Komparatif Portdock

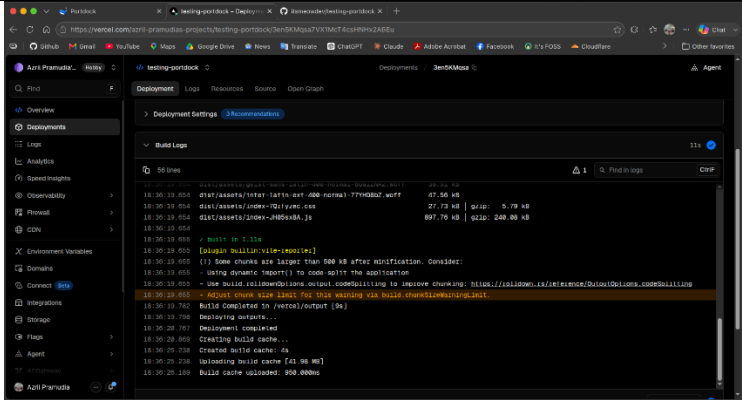
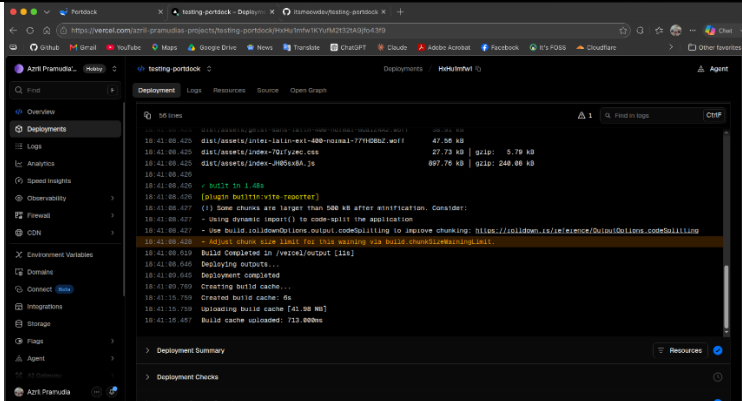
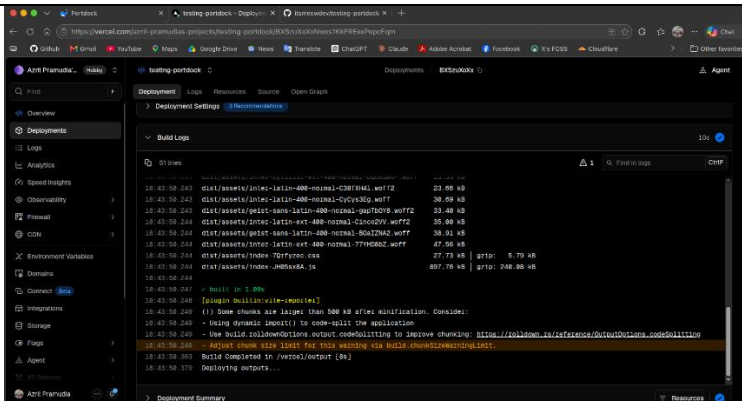
Percobaan Ke-	Waktu Portdock (s)	Dokumentasi
1	3.42	
2	3.60	
3	3.52	

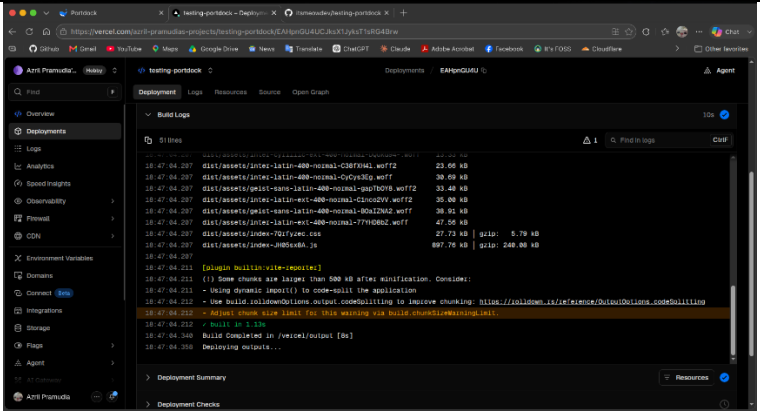
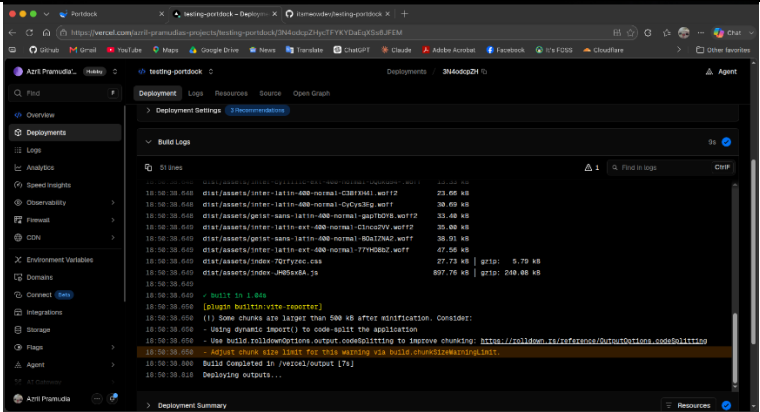
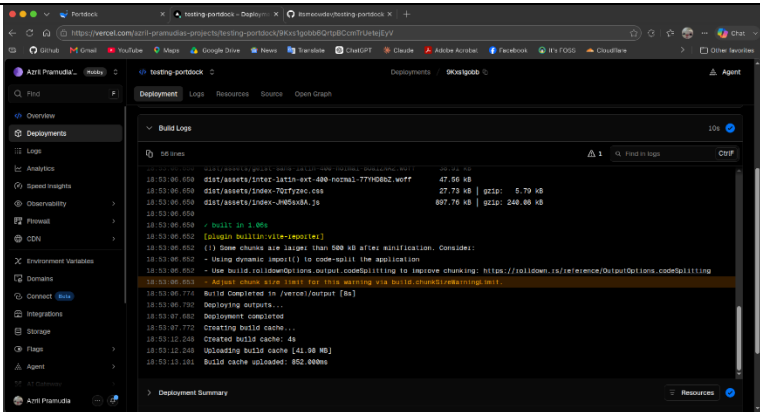
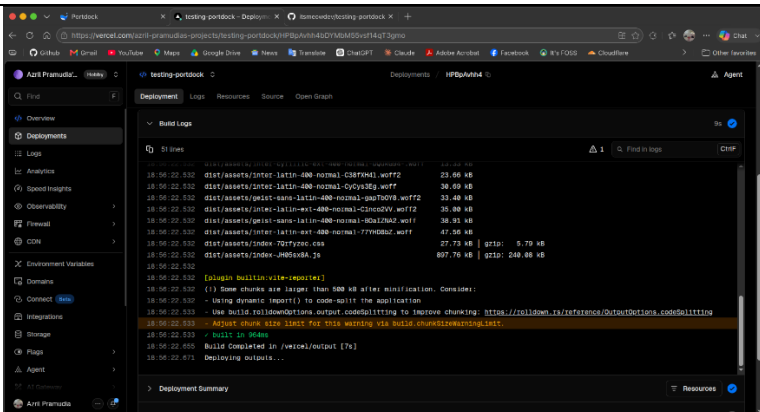
4	3.62	
5	3.44	
6	3.33	
7	3.79	

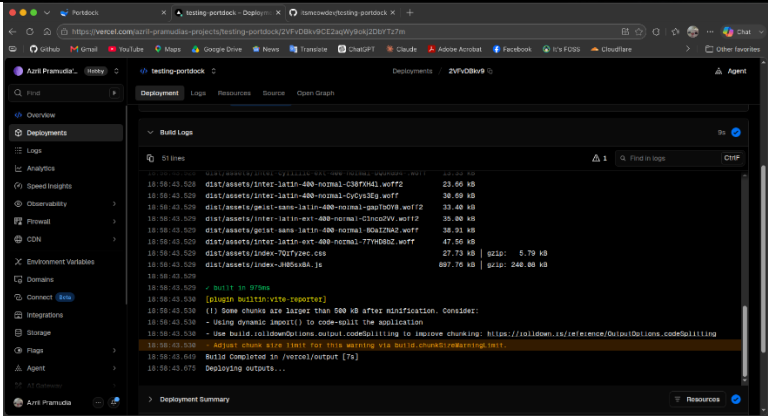
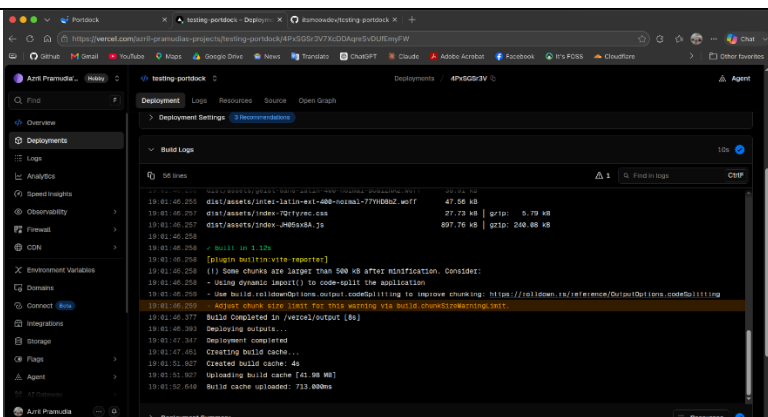
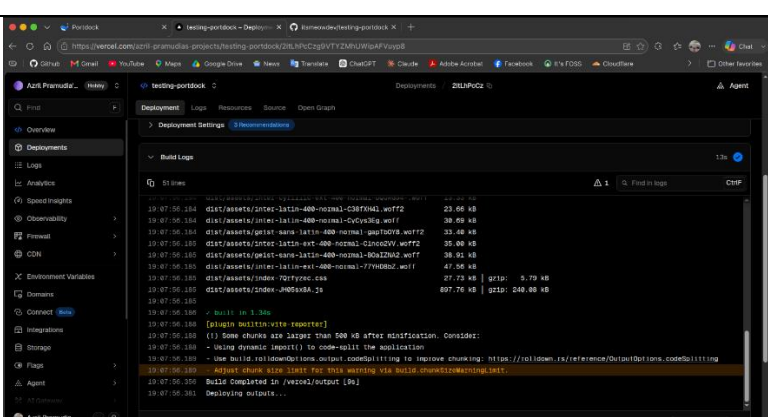
8	3.40	
9	4.17	
10	3.37	

Tabel F.1 Dokumentasi Pengujian Deployment Portdock

Lampiran 7 Dokumentasi Pengujian Komparatif Portdock

Percobaan Ke-	Waktu Vercel (s)	Dokumentasi
1	1.11	
2	1.48	
3	1.09	

4	1.13	
5	1.04	
6	1.06	
7	0.96	

8	0.98	
9	1.12	
10	1.34	

Tabel G.1 Dokumentasi Pengujian Deployment Vercel

DAFTAR RIWAYAT HIDUP

A. Data Pribadi dan Pendidikan



Azril Pramudia Anugrah lahir di Bandung pada tanggal 1 Juli 2004. Penulis menempuh pendidikan dasar di MI Muslimin Golewang, kemudian melanjutkan pendidikan di MTS Negeri 1 Bandung Barat, dan menyelesaikan pendidikan menengah di SMK Negeri 1 Cihampelas Pada tahun 2022, penulis melanjutkan pendidikan Strata Satu (S1) pada Program Studi Teknik Informatika, Fakultas Teknik, Universitas Islam Nusantara, dan menyelesaikan studi pada tahun 2026.

B. Pengalaman

Selama menempuh pendidikan di Program Studi Teknik Informatika, penulis aktif mengikuti berbagai kegiatan akademik dan pengembangan kompetensi di bidang teknologi informasi. Penulis pernah mengikuti program Web Development & UI/UX di Infinite Learning Indonesia, pelatihan DevOps & Cloud Server yang diselenggarakan oleh ID Networkers IDN, serta melaksanakan program magang sebagai IoT Engineer di PT. Langgeng Cipta Solusi. Berbagai pengalaman tersebut memberikan penulis pemahaman dan keterampilan dalam pengembangan perangkat lunak, komputasi awan (*cloud computing*), Internet of Things (IoT), serta implementasi teknologi berbasis container.

C. Keahlian

Penulis memiliki kompetensi dalam bidang pengembangan perangkat lunak, administrasi server, dan infrastruktur *cloud*. Keahlian tersebut meliputi Golang, Node.js, Docker, Linux Server, Git Version Control, MySQL, PostgreSQL, Prisma ORM, Nginx, Cloudflare, serta Computer Networking.