

PORTFOLIO

MUHAMMAD RIFKY ZENA YUDHA

Computer Science Fresh Graduate
Game Programmer
Pixel Artist

Last Updated: October 2024



About Me

I am a Computer Science graduate from Bina Nusantara University with a strong passion for software engineering and game development. My experience includes a hands-on internship at Bank Negara Indonesia (BNI), where I contributed to the testing and documentation of various mobile applications. I am eager to continue to grow in the Information Technology field while exploring opportunities to learn and being more involved.

...

<https://rifkyzena-dev.netlify.app>

General Skills



Programming Languages

HTML, CSS,
JavaScript, C#

...



Tools

Microsoft Office, Unity,
Aseprite, JIRA, Trello,
Canva, Postman

...



Certifications:

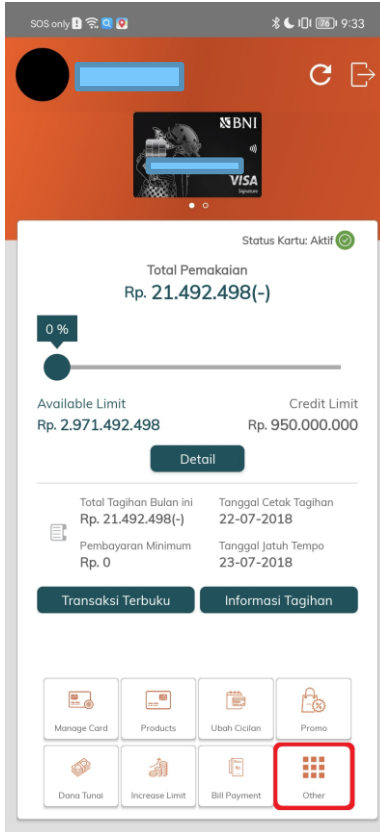
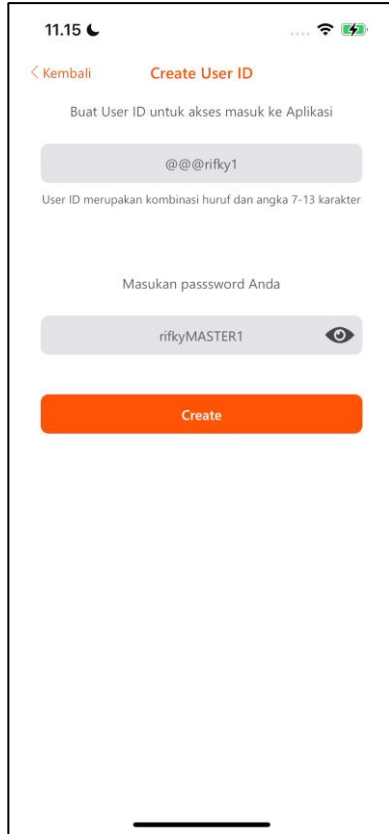
TOEFL ITP – Score 613/677

Udemy – Complete C# Unity Game
Developer 2D

BUMN Magenta – Program Magang
Mahasiswa Bersertifikat

...

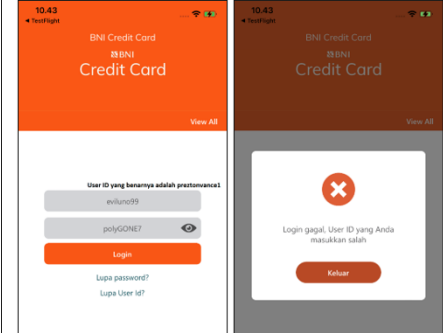
Internship Task 1 – Testing BNI Credit Card

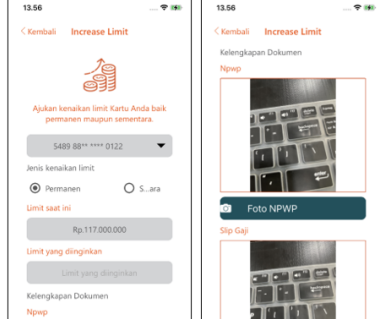


BNI Credit Card is an application used by BNI customers to manage their credit card accounts. There are 3 phases of step testing carried out to find bugs/defects/errors in the application, starting from the Registration, Login, and Main Page menu steps. The BNI Credit Card application was tested on 3 types of mobile devices, namely Android, Huawei, and IOS.

Testing is done to test the integration of the entire system before the update for the implementation of the User ID feature during registration and when customers access the application.

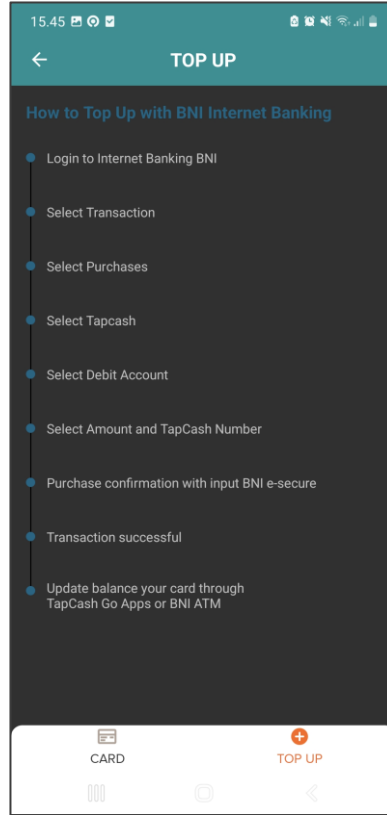
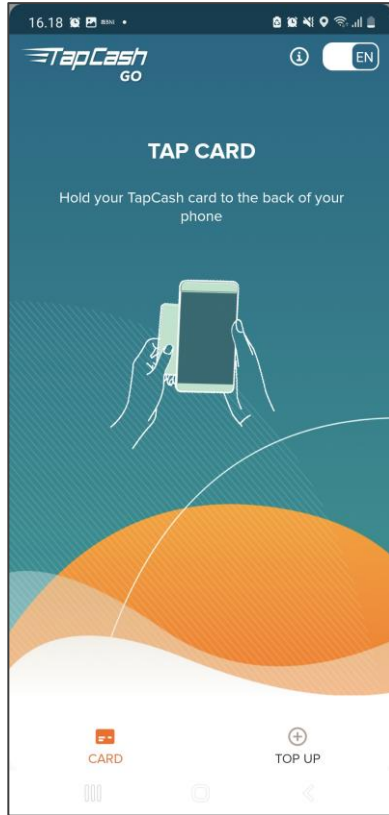
Internship Task 1 – Testing BNI Credit Card

8.2.5 Login : ORG 200
8.2.5.1 Login user ID tidak sesuai
8.2.5.1.1 Preparations
<ul style="list-style-type: none">Sudah mendaftarkan Kartu Kredit BNI Corporate / Business untuk membuat akun pada device.User ID dan password yang terdaftar pada device.
8.2.5.1.2 Exit Acceptance Criteria
<ul style="list-style-type: none">Muncul notifikasi dan login gagal
8.2.5.1.3 Procedure
<ul style="list-style-type: none">Buka aplikasi Mycard setelah melakukan registrasi akunInput User ID salahInput password benarKlik login
8.2.5.1.4 Output
8.2.5.1.4.1 Mycard


8.2.7.70 Increase limit tanpa menginput limit yang diinginkan (permanen)
8.2.7.70.1 Preparations
<ul style="list-style-type: none">Sudah mendaftarkan kartu kredit BNI menjadi akun pada device dan melakukan loginFoto NPWP dan foto slip gaji
8.2.7.70.2 Exit Acceptance Criteria
<ul style="list-style-type: none">Increase limit gagal
8.2.7.70.3 Procedure
<ul style="list-style-type: none">Masuk ke menu increase limitPilih nomor kartuTidak menginput limit yang diinginkanPilih jenis kenaikan limit permanenInput foto NPWPInput foto slip gajiKlik persetujuan syarat & ketentuanKlik submit
8.2.7.70.4 Output
8.2.7.70.4.1 Mycard


The Testing document has a lot of supporting information, such as Business Requirements, Document Authorization, Test Plan, Test Type, before then listing the attachments which are divided into Preparation, Exit Acceptance Criteria, Procedure, and then output.

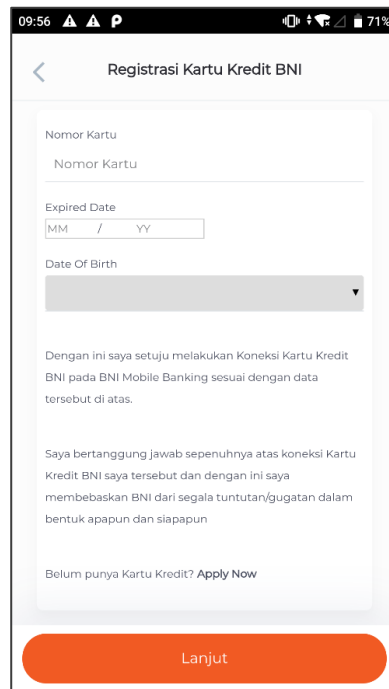
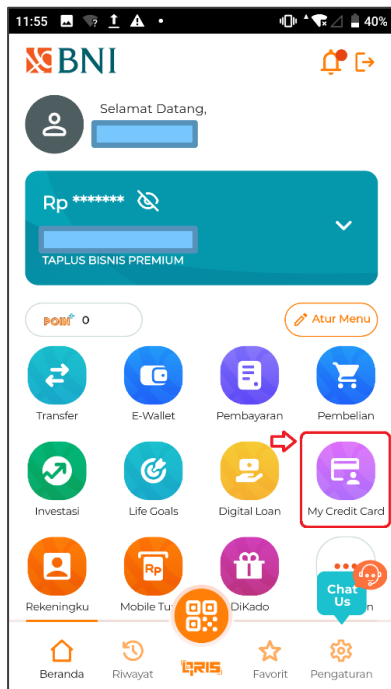
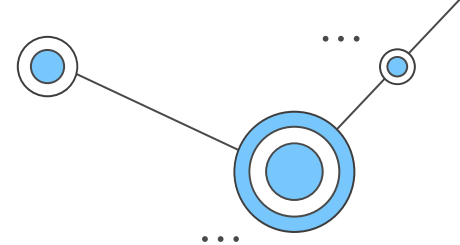
Internship Task 2 – BNI TapCash Go Testing



TapCash Go is a BNI application used by Electronic Money card users to update their balance. Currently, the TapCash Go application can be used by iOS, Huawei, and Android users equipped with two languages, Indonesian and English.

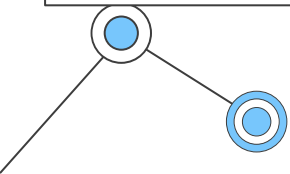
The TapCash Go application still does not have a Dark Mode feature, so a series of tests were carried out to test the Dark Mode feature before launching to the wider user community.

Internship Task 3 – Response 403 of Service Inquiry

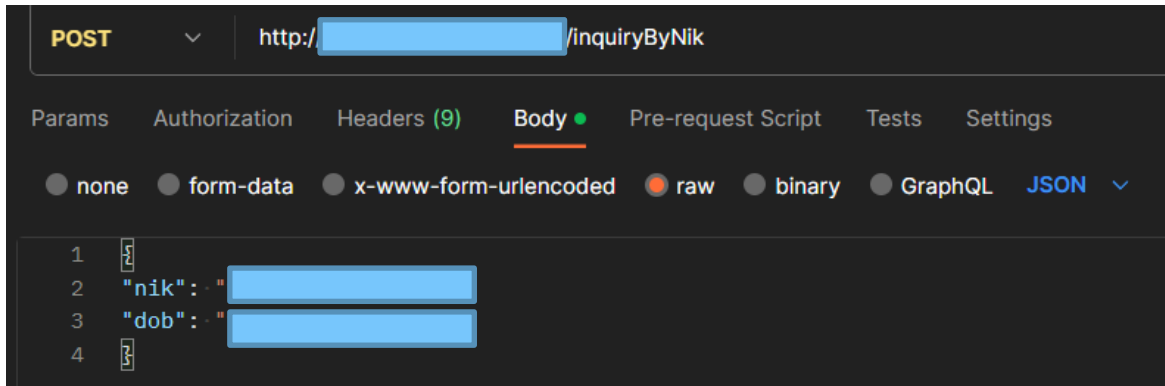


There is an increased response with code 403 on the monitoring dashboard for the MyCredit Card feature in BNI Mobile Banking, specifically on the "Inquiry by NIK" endpoint. Every time a user clicks on the My Credit Card feature, the system will check whether the user has a digital credit card that has not been activated.

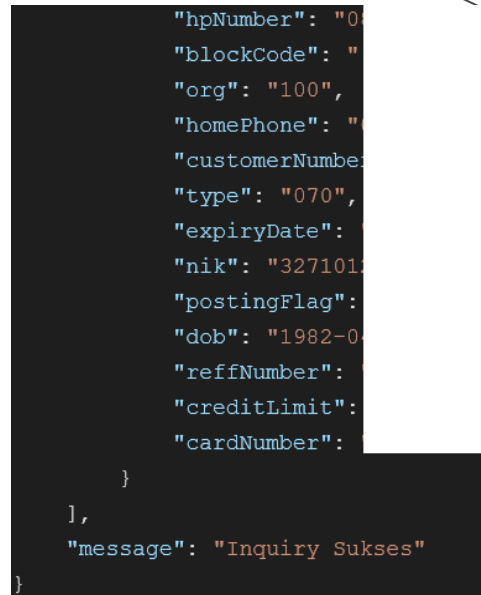
This 403 code increase occurs when the user's NIK data is not found, so the My Credit Card menu display will be different. To prevent an increase in errors and excessive resource usage, it is necessary to test and adjust the Cardlink Service regarding this 403 code response.



Internship Task 3 – Response 403 of Service Inquiry



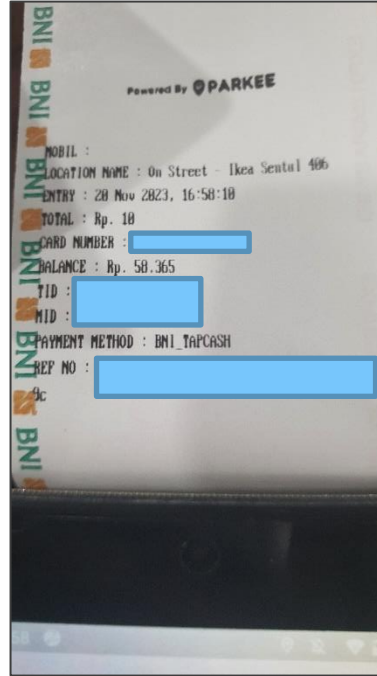
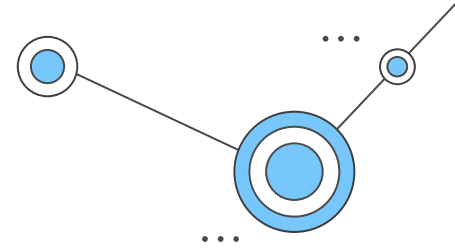
id	request_method	request_address	request	response	date
61,172	Inq By NIK	192.168.151.65	{nik=3271*****0003, dob=***...	{code=200, data=[{"hpNumber": "08211114590...	2023-10-10 16:56:30
61,171	Inq By NIK	192.168.151.65	{nik=3271*****0003, dob=***...	{"request":200,"result":{"SOAC002":{"BNSOA...	2023-10-10 16:56:30
61,170	Inq By NIK	192.168.151.65	{nik=3271*****0003, dob=***...	{"request":200,"result":{"SOAC002":{"BNSOA...	2023-10-10 16:56:30



2023-10-02 13:28:27.543 [http-nio-46000-exec-3] INFO i.co.bni.cgt.lib.utilities.ApiLogger - requestId|b3546aa5-5210-4f66-a6ee-61404ab69a4d|remoteAddr|10.70.131.219|host|192.168.150.226:46000|date|2023-10-02 13:28:27.000|method|POST|url|/inquiryByNik|userAgent|PostmanRuntime/7.33.0|contentType|application/json|statusCode|200|responseTime|152 ms|

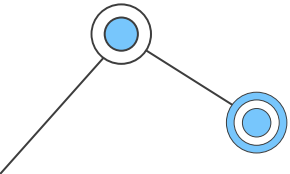
When making an inquiry, if the data is found then the response will show a response of 200 in the Postman application the JSON data will also appear, as well as in the HeidiSQL application.
If it doesn't exist then the result will show a response of 403.

Internship Task 4 – EDC Reader Parkee Testing

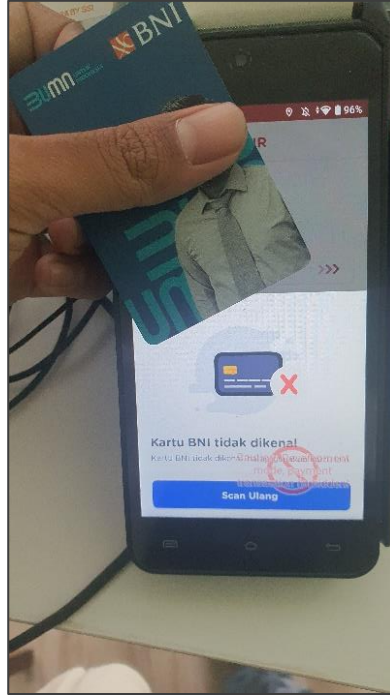
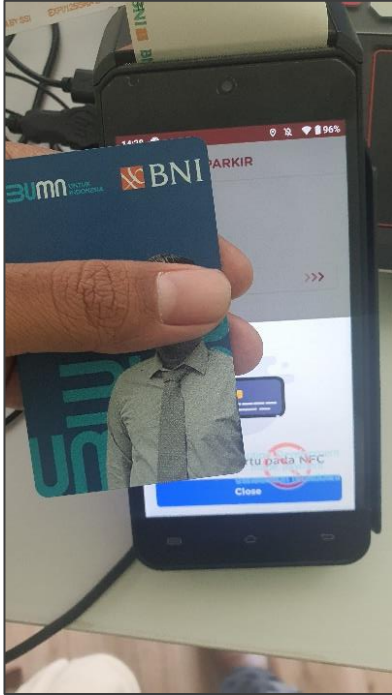
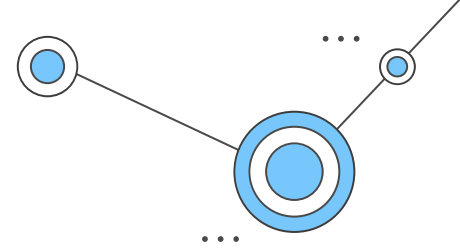


PT Inovasi Anak Indonesia (Parkee) is BNI's new partner working as an integrator for TapCash acceptance at several parking lots. This partner uses three types of readers for payment, which require special certifications and specifications in order to read TapCash cards, with the Ingenico EDC equipped with a touchscreen as one of the main devices.

A series of tests were conducted on these machines, ranging from normal transactions to transactions with special cards such as MSI and Soundrenaline, as well as abnormal transaction scenarios such as insufficient balance. Testing aims to ensure that the application inside the reader can function as expected, such as deducting the balance on a successful transaction or failing the transaction if the card expires.

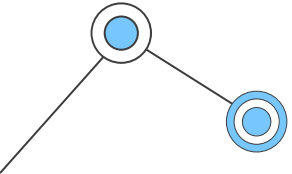


Internship Task 4 – EDC Reader Parkee Testing



In addition to checking the test results from the application screen or proof of transaction, balance checking can be done using the Tapcash Go application.

For example, there is a transaction test using a different environment card. The different environment card in question is a TapCash card that is already in production and cannot be used for testing. If we use a production card to make transactions on this device, the transaction will fail and the balance will remain the same.

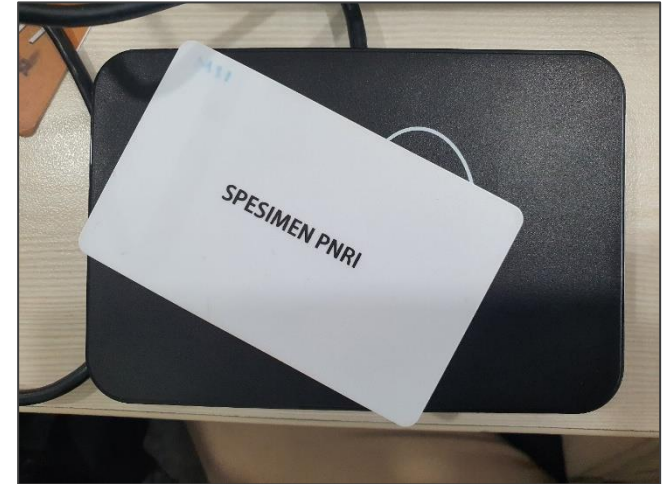


```

60 Log Time : 30-11-2023 13:14:38.621
61 Send debit command :
62 Command : 90-34-00-00-25-03-12-01-14-03-82-BA-BB-BA-4F-F9-BC-FE-88-
EA-E6-05-3F-AC-08-E3-F7-1A-BE-D9-66-91-D3-D8-00-00-00-00-00-00-00-00-18
63 SW1 SW2 = 90 00
64 Response: E6-01-CB-63-A5-35-2B-D9-4E-79-38-3F-D8-26-3F-DE-5F-29-5A-D5
17-72-EA-79
65
66 Log Time : 30-11-2023 13:14:38.450
67 Verify debit receipt command :
68 Command : 80-11-0D-01-38-75-46-22-00-00-12-27-88-75-46-22-00-00-12-27-
96-92-9D-D6-4C-20-5C-4C-E8-E0-7E-17-68-6F-21-55-82-E6-D1-CB-63-A5-35-2B-D9-4E-79-38-3F-D8-26-3F-
DE-5F-29-5A-D5-17-72-EA-79
69 SW1 SW2 = 90 00
70 Response: 00-E3-E9-BA-BD-D2-E6-A7-B7-38-74-00-00-18-00-00-11-00-00
71
72 Log Time : 30-11-2023 13:14:38.680
73 Create settlement file
74 Settlement file created
75
76 Log Time : 30-11-2023 13:14:38.693
77
78 {
79     "DeductAmount": 5,
80     "BalanceBefore": 58350,
81     "BalanceAfter": 58345,
82     "SettlementData":
83     "D0175462200001279601FFFB36629A3D120104010000E3EE00E3E90000180000110000BABD02E6A7B73B740
00000000600271035FE6CF71200140101FFFB365EBDE10000000000000000007E73AABC9B3B9FE1000017000
01100000351000000079256
84     "StartTime": "2023-11-30T13:14:37.4263756+07:00",
85     "EndTime": "2023-11-30T13:14:38.6938902+07:00"85
86 }

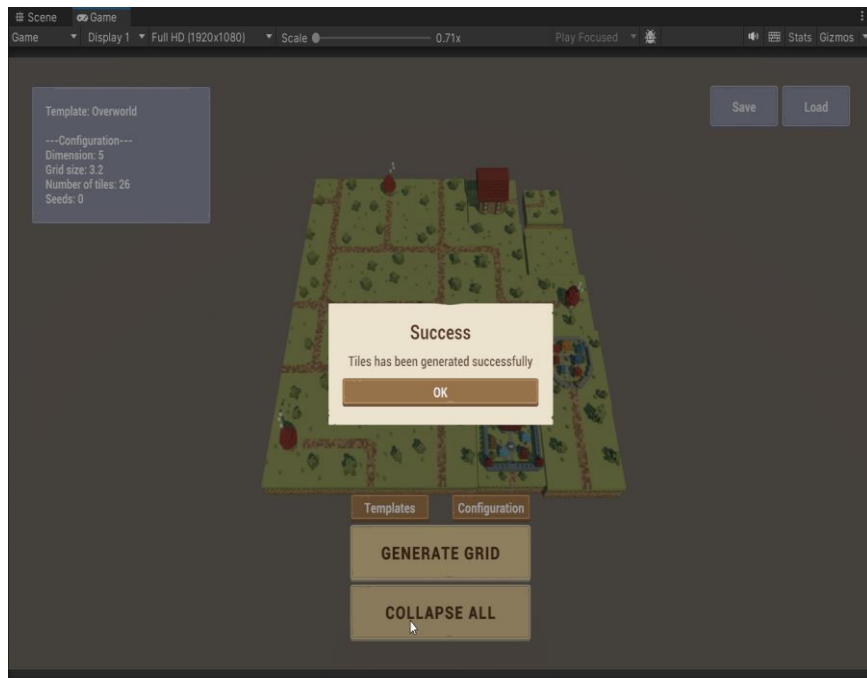
```

Internship Task 5 – RFID Card Reader MikaParking Testing



Testing carried out on this device and application for parking payment is in the form of a system integration test. To make a transaction, the TapCash card is simply placed on the card reader. The application will automatically display a notification if the transaction process fails or succeeds.

WFC Terrain Generator



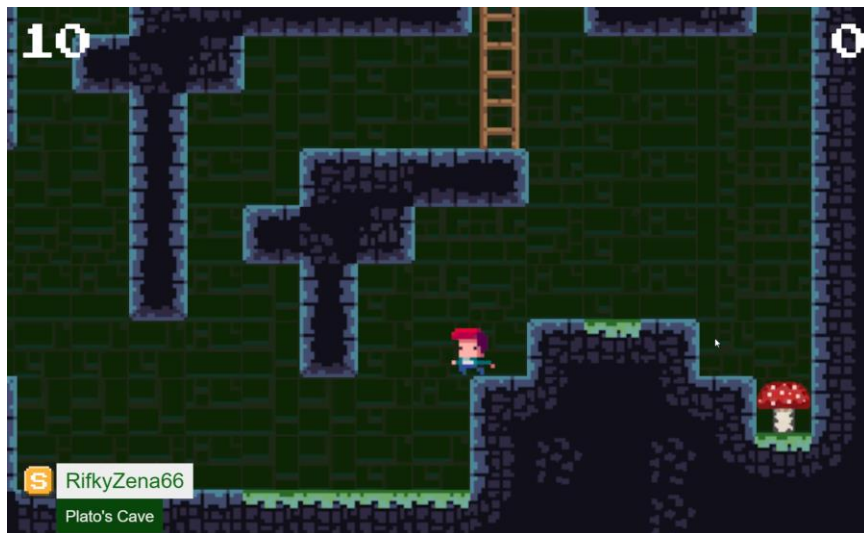
Demo Video: <https://youtu.be/mkepFt3DPCl>

WFC Terrain Generator is a procedural generation tool made in Unity implementing Wave Function Collapse algorithm.

Features:

- Easy Setup for Asset Inputs with automatic tile rule configuration
- Adjusts tile appearance probabilities by setting weights
- Defines key level elements, with WFC filling the rest.
- Allows saving and reloading generated tiles easily.

Plato's Cave



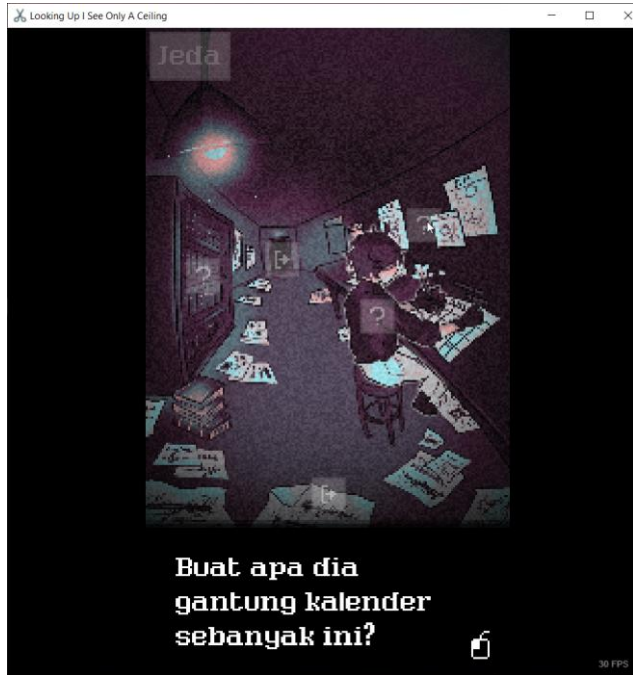
Plato's Cave is a 2D platformer game made in Unity. It is a game about escaping three cave levels while collecting all coins and avoiding traps and slime enemies.

Features:

- Fast paced character movements
- Intuitive camera system
- Wide levels with various challenges
- Retro pixel art style and sound effects

See Details: <https://github.com/rifkyzena/Cave-of-Plato>

Looking Up I See Only A Ceiling

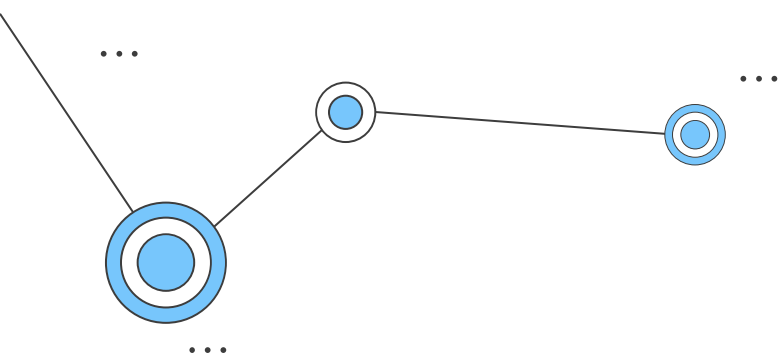


Play the game here:

https://store.steampowered.com/app/1742930/Looking_Up_I_See_Only_A_Ceiling/

Looking Up I See Only A Ceiling is a short point-and-click game about a fatigued med school student encountering bizarre events in her little house. I am responsible to localize the game in Indonesian language, in hopes it would attract more Indonesian gamers to play the game on Steam and enjoy the immersive experience.

My responsibilities include the translation of 900+ lines of English texts, and making sure they all fit perfectly in the dialogue box.



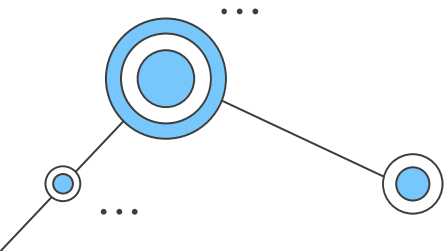
[linkedin.com/in/m-rifky-zena-yudha](https://www.linkedin.com/in/m-rifky-zena-yudha)



rifkyzena26@gmail.com



github.com/rifkyzena



Let's keep in touch!

