



CLAIMS MANAGEMENT SYSTEM

TABLE OF CONTENTS

PROBLEM
STATEMENT

01

OVERVIEW

02

FEATURES

03

ARCHITECTURE

04

05

TECHNOLOGY

06

A CLOSER LOOK



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01

PROBLEM STATEMENT



PROBLEM STATEMENT

A leading HealthCare Management Organization wants to strengthen its middleware by exposing the core logic related to Claims Management as Microservices.

The middleware Microservices are to be hosted on Cloud.

Member Portal to be developed that consumes these Microservices and responds back to members who are in need of Claim related information.



02

OVERVIEW



LIST OF MICROSERVICES

- 1) MEMBER PORTAL
- 2) AUTHORIZATION MICROSERVICE
- 3) MEMBER MICROSERVICE
- 4) CLAIMS MICROSERVICE
- 5) POLICY MICROSERVICE



03

FEATURES



FEATURES



SUBMIT CLAIM

The user can insert the claim details like :

1. ID
2. Hospital Name
3. Claim Amount

A claim ID will be generated corresponding to the submitted claim.



CHECK STATUS

The user can check the status of a particular claim with the given claim ID. For instance, Claim is pending as more documents are needed for verification.



VIEW BILLS

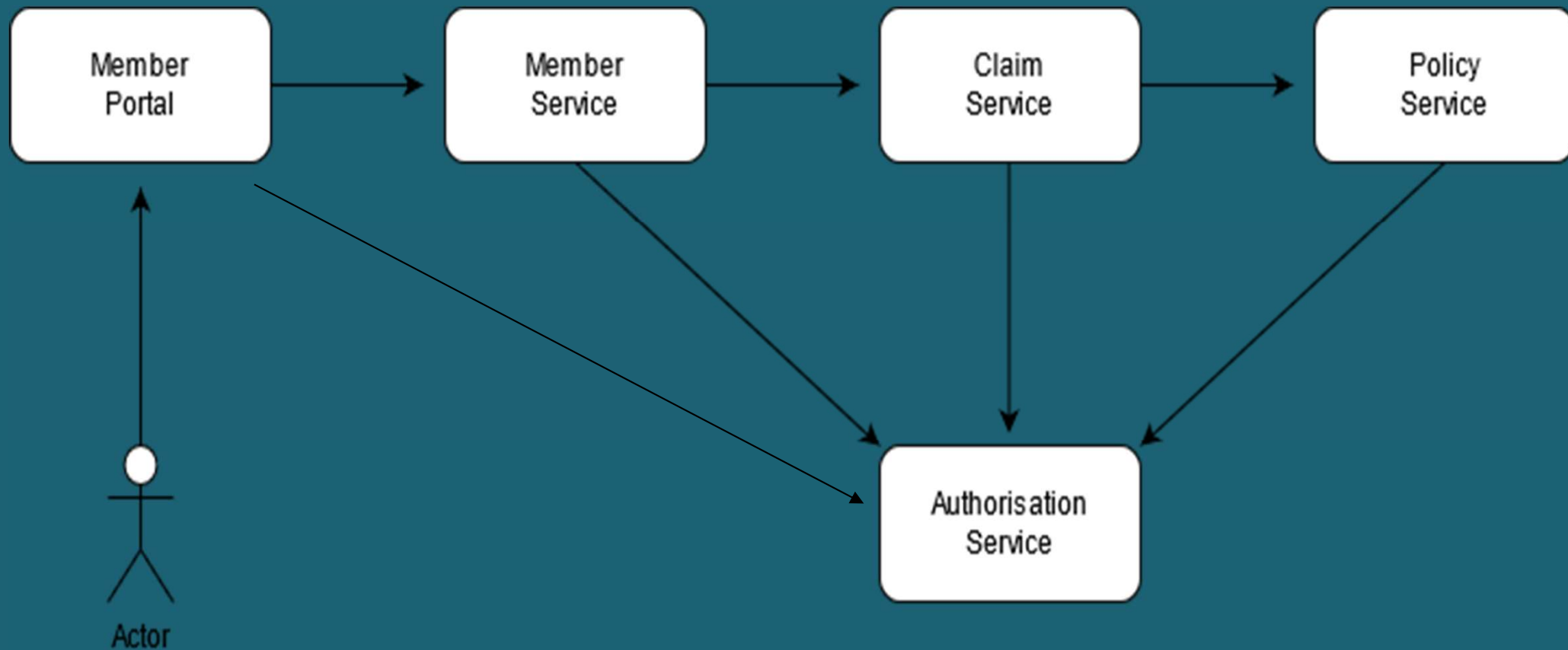
The User can see if he/she has any pending bills along with the last premium paid date and late charges

04

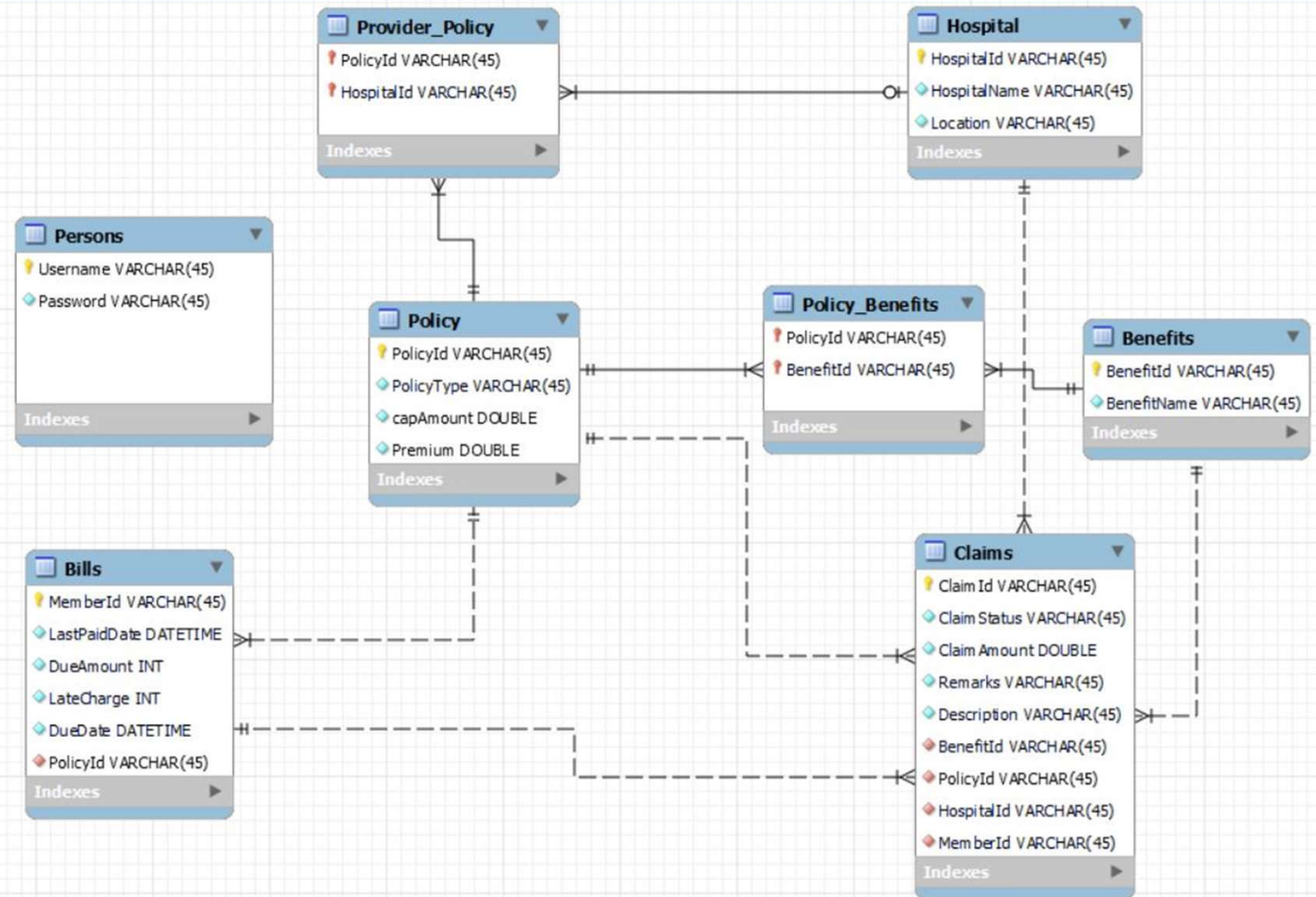
ARCHITECTURE



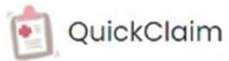
ARCHITECTURE/FLOW DIAGRAM



DATABASE SCHEMA



MEMBER PORTAL



[Home](#)

[Login](#)

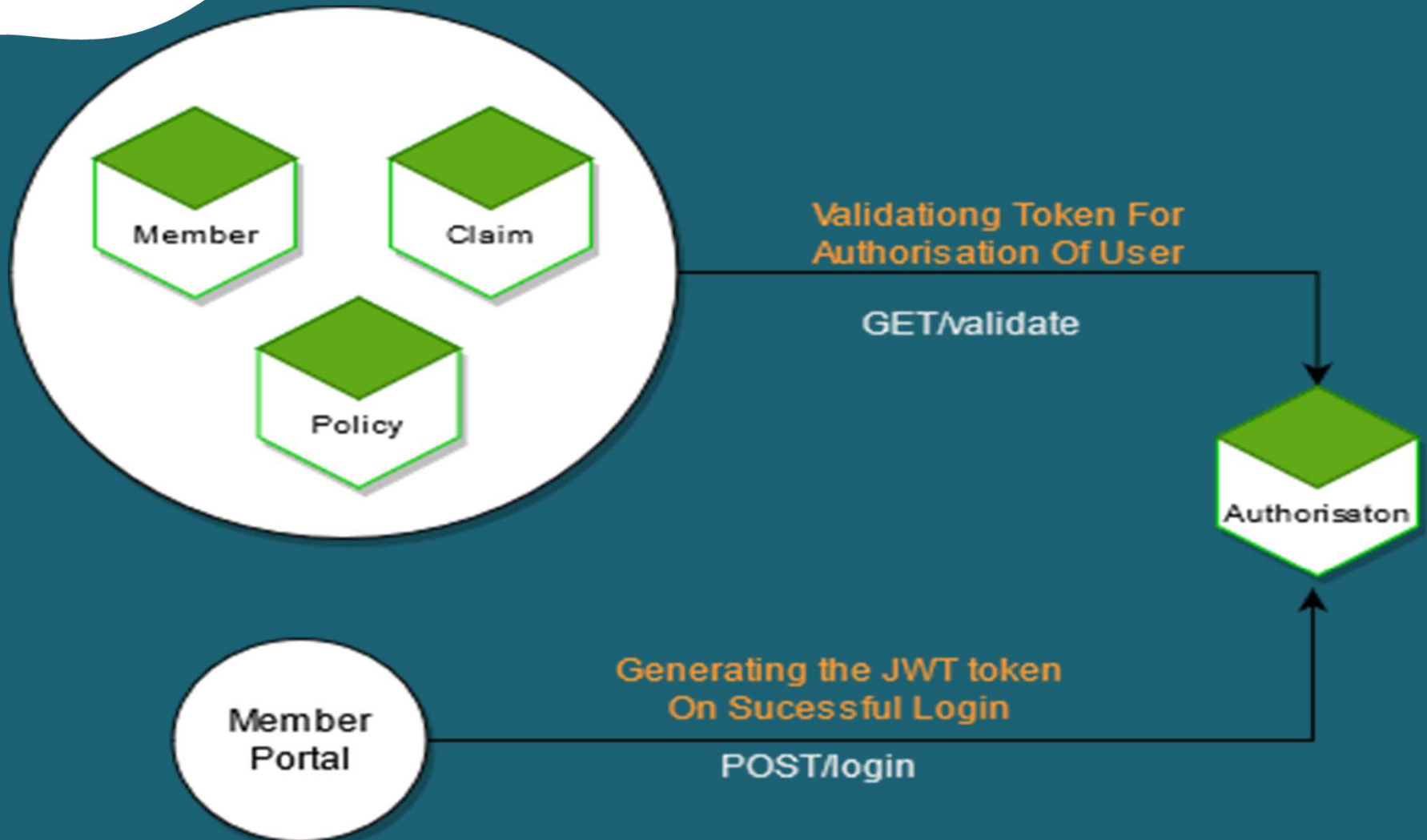
Managing claims made simple

A simple claim manager for a simple life.

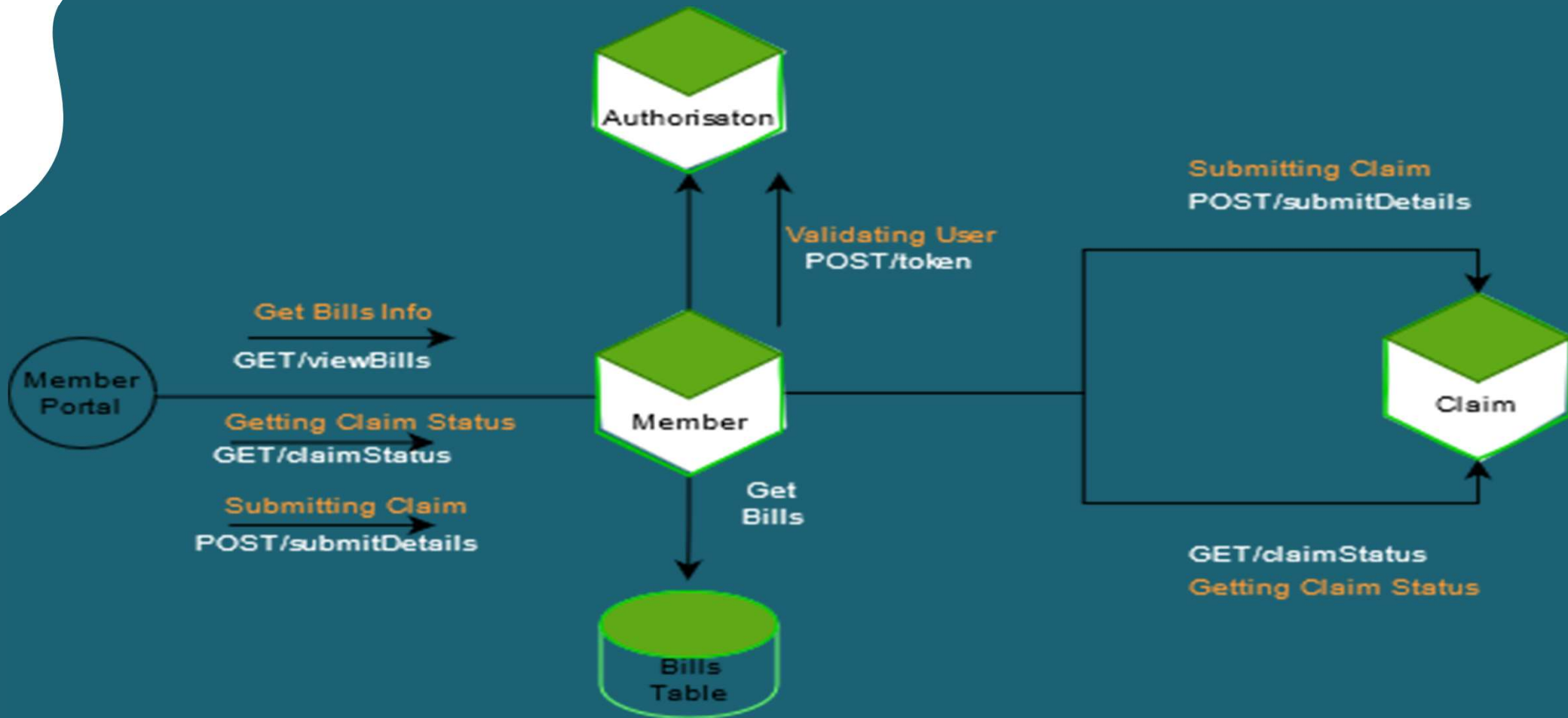
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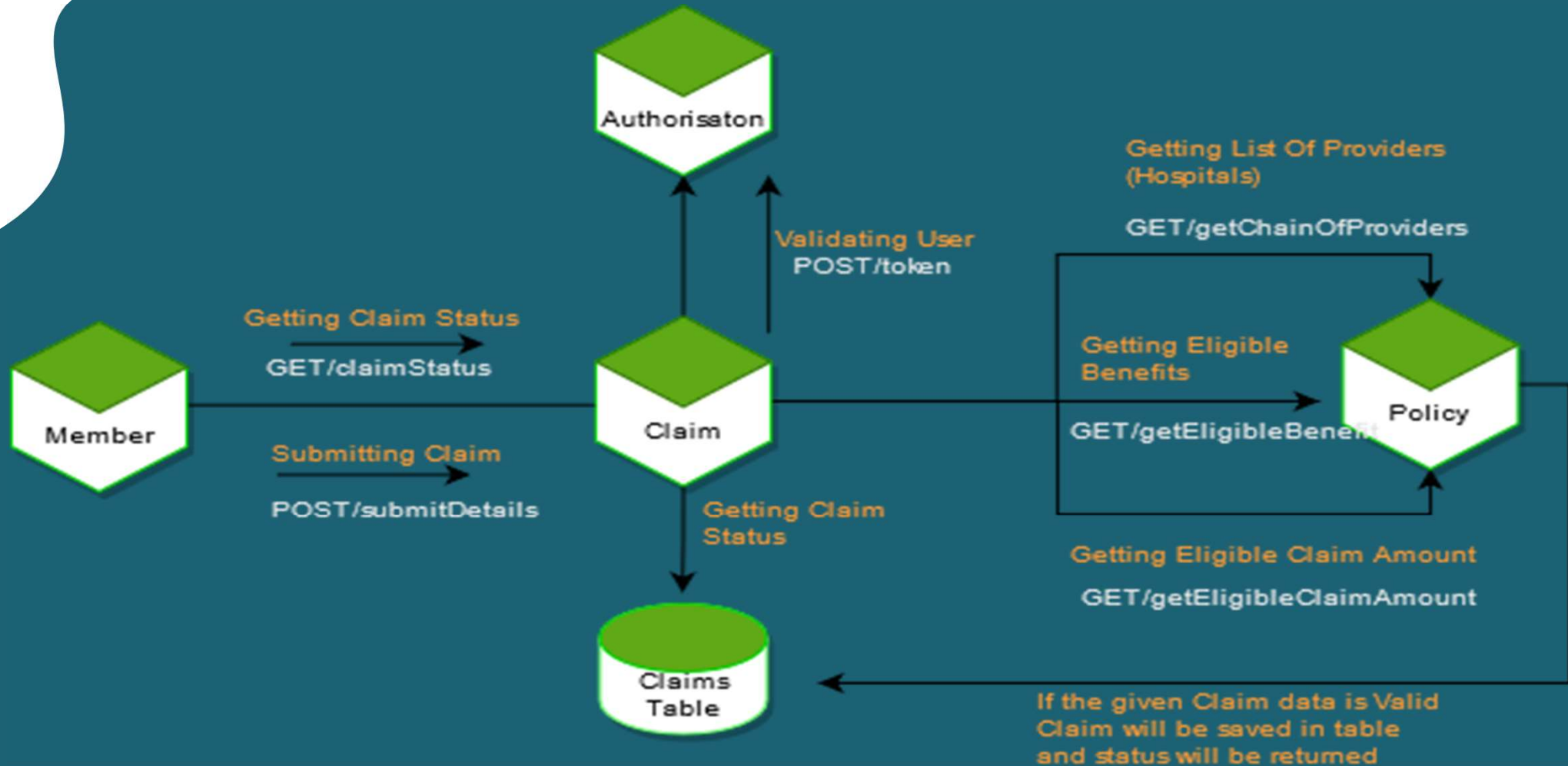
AUTH MODULE



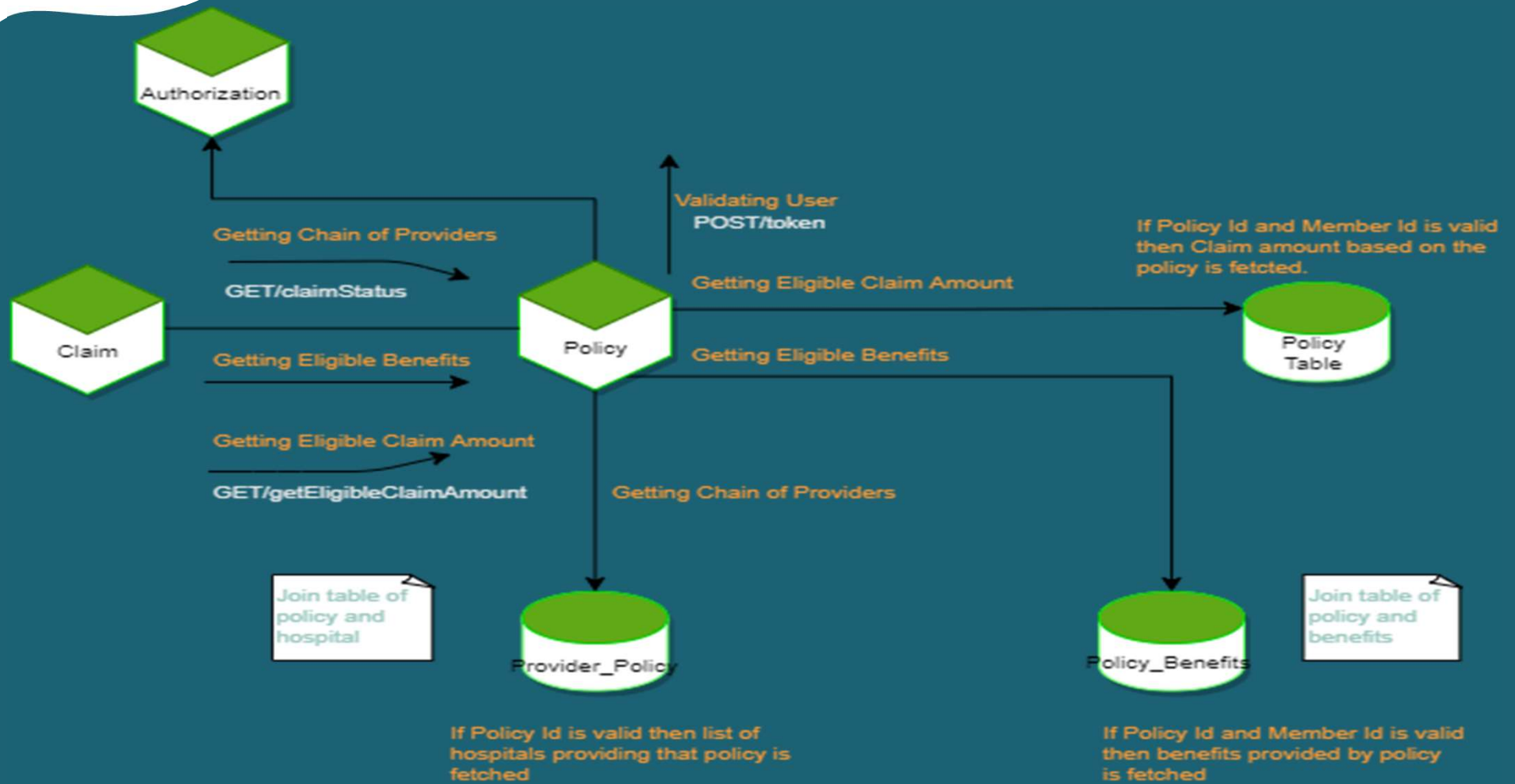
MEMBER MODULE



CLAIMS MODULE



POLICY MODULE



05

TECHNOLOGY



TECHNOLOGY/FRAMEWORKS USED



FRONTEND

Angular



BACKEND

Spring MVC with Spring Boot

Spring Data JPA, H2 In Memory DB



TESTING

jUnit 4/jUnit 5

Mockito



DEVOPS & CLOUD

Docker

AWS CI/CD

AWS ECS

AWS S3



ANCILLARY

Maven

Lombok

07

A CLOSER LOOK



CLOUD DEPLOYMENT - AUTH PIPELINE

The screenshot displays the AWS CodePipeline console interface. The left-hand navigation pane is open, showing the 'CodePipeline' section under 'Developer Tools'. The 'Pipeline' link is highlighted. The main content area shows the execution details for a pipeline. The 'Build' stage, using 'AWS CodeBuild', is marked as 'Succeeded' and completed 11 minutes ago. Below it, the 'Deploy' stage, using 'Amazon ECS', is also marked as 'Succeeded' and completed 5 minutes ago. A 'Disable transition' button is visible between the two stages. The top of the console shows the AWS logo, 'Services' menu, a search bar, and the current region 'N. Virginia'. The bottom footer contains a 'Feedback' link, a language selection prompt, and copyright information for Amazon Internet Services Private Ltd.

Build Succeeded
Pipeline execution ID: 47a7a394-cf65-43ba-9ebb-0979d48a629e

Build
AWS CodeBuild
Succeeded - 11 minutes ago
Details

2da1d5f8 Source: Edited buildspec.yml

Disable transition

Deploy Succeeded
Pipeline execution ID: 47a7a394-cf65-43ba-9ebb-0979d48a629e

Deploy
Amazon ECS
Succeeded - 5 minutes ago
Details

2da1d5f8 Source: Edited buildspec.yml

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

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CLOUD DEPLOYMENT - POLICY PIPELINE

The screenshot displays the AWS CodePipeline console interface. The left sidebar shows the navigation menu with 'CodePipeline' selected under 'Developer Tools'. The main area shows a pipeline execution with two stages: 'Build' and 'Deploy', both of which have succeeded. The 'Build' stage is powered by 'AWS CodeBuild' and completed 2 minutes ago. The 'Deploy' stage is powered by 'Amazon ECS' and completed 'Just now'. Both stages show a 'Source: removed tests' message. The console includes a search bar at the top, a 'Disable transition' button for each stage, and a status bar at the bottom with copyright information and links to Privacy Policy, Terms of Use, and Cookie preferences.

aws Services ▾ Search for services, features, marketplace products, and docs [Alt+S] 30intcde02510 @ 9415-1647-8045 ▾ Ohio ▾ Support ▾

Developer Tools
CodePipeline

- ▶ Source • CodeCommit
- ▶ Artifacts • CodeArtifact
- ▶ Build • CodeBuild
- ▶ Deploy • CodeDeploy
- ▼ Pipeline • CodePipeline
 - Getting started
 - Pipelines
 - Pipeline
 - History
 - Settings
 - ▶ Settings

Go to resource
Feedback

Disable transition

Build Succeeded
Pipeline execution ID: 09fbd15d-aa8b-47c4-bfbd-e716e4ce9c41

Build
AWS CodeBuild
Succeeded - 2 minutes ago
Details

cd623557 Source: removed tests

Disable transition

Deploy Succeeded
Pipeline execution ID: 09fbd15d-aa8b-47c4-bfbd-e716e4ce9c41

Deploy
Amazon ECS
Succeeded - Just now
Details

cd623557 Source: removed tests

Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

CLOUD DEPLOYMENT - CLAIMS PIPELINE

The screenshot displays the AWS CodePipeline console interface. On the left, a sidebar menu lists various developer tools and pipeline stages, with 'CodePipeline' selected. The main area shows a pipeline execution summary for ID 'cf56d76a-764f-406e-8740-281bec9a0cf6'. The pipeline consists of two stages: 'Build' and 'Deploy'. The 'Build' stage, using 'AWS CodeBuild', is marked as 'Succeeded' and completed 23 hours ago. The 'Deploy' stage, using 'Amazon ECS', is also marked as 'Succeeded' and completed 3 minutes ago. A 'Disable transition' button is visible between the two stages. The bottom of the screen features a footer with links for feedback, language selection, and settings, along with copyright information for Amazon Internet Services Private Ltd.

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Developer Tools CodePipeline

- Source • CodeCommit
- Artifacts • CodeArtifact
- Build • CodeBuild
- Deploy • CodeDeploy
- Pipeline • CodePipeline
 - Getting started
 - Pipelines
 - Pipeline**
 - History
 - Settings
- Settings

Go to resource Feedback

Build Succeeded
Pipeline execution ID: cf56d76a-764f-406e-8740-281bec9a0cf6

Build
AWS CodeBuild
Succeeded - 23 hours ago
Details

df7a33f2 Source: Edited buildspec.yml

Disable transition

Deploy Succeeded
Pipeline execution ID: cf56d76a-764f-406e-8740-281bec9a0cf6

Deploy
Amazon ECS
Succeeded - 3 minutes ago
Details

df7a33f2 Source: Edited buildspec.yml

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

THANK YOU!

