Client	Access	Web	Application	Managed Services	Data	Storage

Frontend

Thin client browser
No support for:
IE, Opera (any version)

Regular Users

Registered: 3
Active: 3

1

Admin Users

Registered: 3
Active: 3

2

FirebaseUI Auth

Supported mechanism(s):
Email based
GoogleAuthProvider

3

Authorization
Black Box

Providers

Google

4

Email-based

Firebase Authentication

5

Google DNS

6

Google GTM

7

Google LTM

8

HTTPS Traffic on port 443
GET or PUT request(s)

User data
(search results, reviews, subscriptions, etc.)

ID Token

Update service, config, or container

Google Cloud Platform (GCP)

SimplyATX UI

Host: Google Firebase

URLs: (movies-simplyatx.firebaseapp.com
movies-simplyatx.web.app
simplyatx.com
www.simplyatx.com)
Redirect: www.simplyatx.com -> simplyatx.com
CPU: 1

9

HTTPS
Forward all /** requests,
except /helloWorld for
keep-alive monitoring of Firebase Functions

SimplyATX Web Service API

Host: Google Cloud Run
Connectivity: external, WAN
Service name: movies

URL: https://movies-uckgeng5kq-uc.a.run.app
Region: us-central1
Container port: 8080
CPU: 1000m
MEM: 256M

10

SSL Traffic on port 465
User feedback email workflow

ZOHO Mail

SMTP
Port: 465
Protocol: SSL

11

12

smtp.zoho.com

Synchronization of user data for reviews, milestones, and notifications

AFI

Endpoint:
https://catalog.afi.com/Search
Content: application/json
Movie and title information

13

IMDB

Endpoint:
https://m.imdb.com/title
Content: application/json
Movie and title info

14

User reviews and
milestone data

Firebase
Cloud Storage
5 GB

15

Firebase Hosting

Downloads: 360
MB / day
Storage: 1 GB

16

Email workflow back to admin and user

Style	Type	Purpose	Protocol	Ports		
	WAN	Authentication	HTTPS	443		
	WAN	Application	HTTPS	443		
	WAN	SMTP	SSL	465		

Main Use Cases Transaction Log				
Description	**Sequence**			
User Login	1, 6, 7, 8, 9, 3, 4 OR 5, 3, 9			
Perform search	(login sequence **optional**) + 1, 6, 7, 8, 9, 10, 13 AND 14, 10, 9			
Leave a review	(perform search sequence **mandatory**) + 10, 15, 10, 9			
Subscribe to notification	(login sequence **mandatory**) + 10, 15, 10, 11, 12, 1			
Leave feedback	1, 6, 7, 8, 9, 10 , 11, 12, 1, AND 2			
Activity Milestone	(login sequence **mandatory**) + (search sequence **mandatory**) + (review sequence **mandatory**) + 10, 15 10, 11, 12, 1			

Revision History				
Date	**Rev**	**Change Description**	**Change Author**	
14-Apr-20	001	Initial Release	Borislav Sabotinov	