

Module Number	Module	Description
1	Netflix Churn Predictor System	The overarching system designed to predict churn in a Netflix-like service.
2	User Interface	Consists of the web interface and mobile app for user interaction.
3	Data Storage	Responsible for storing user data and machine learning models. Uses Amazon DynamoDB for user data and Amazon S3 for model storage.
4	Prediction Engine (Microservices)	Contains microservices for preprocessing data, training models, and predicting churn based on user behavior.
5	External APIs	Interfaces with external systems, interacting with the prediction engine to receive predictions.
6	Authentication and Authorization	Manages user authentication and authorization, including an OAuth 2.0 provider and Role-Based Access Control (RBAC) service.
7	Real-time Notifications	Provides real-time notifications to users using Amazon Simple Notification Service (SNS).
8	Monitoring and Logging	Monitors system health using Amazon CloudWatch and logs events using Amazon CloudTrail.
9	Deployment	Handles deployment of components: microservices deployed using Amazon ECS or Kubernetes, web interface on Amazon S3 with AWS Amplify, and mobile app deployed to app stores.