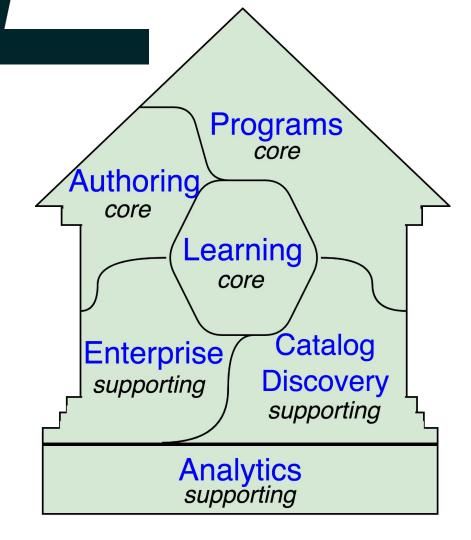
Open edX Technical System



Domain Abstractions



edX Domains





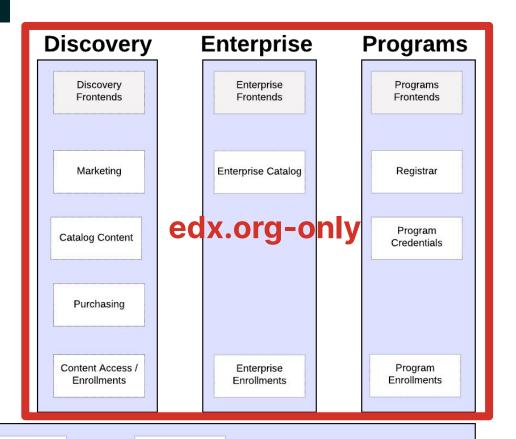
Open edX Domains & Contexts

Authoring

Authoring Frontends Course Run Authoring Learning Content Authoring Learning Content Repository Video Processing

Learning





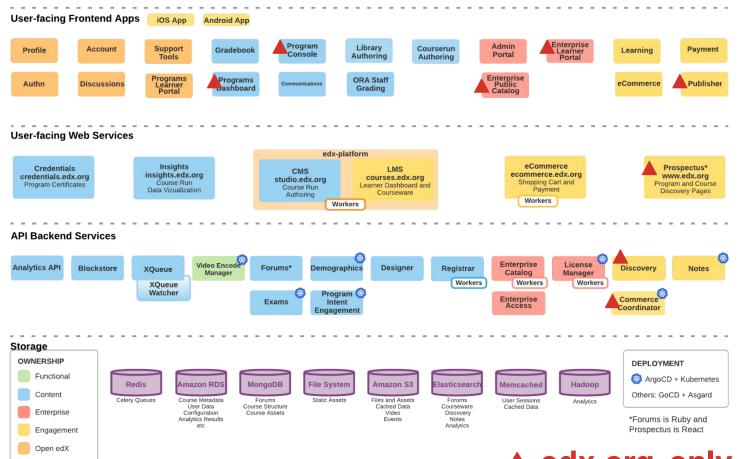


Analytics

Users

Technical Services



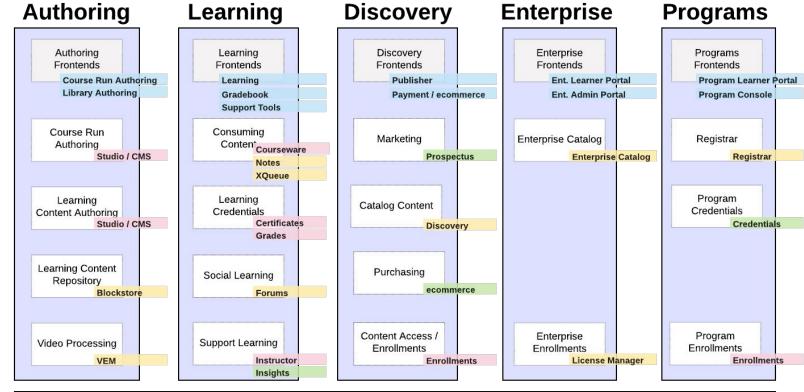




▲ edx.org-only

Open edX Contexts with Services

Frontends
User-facing Web Services
API Backend Services
Apps in the Monolith







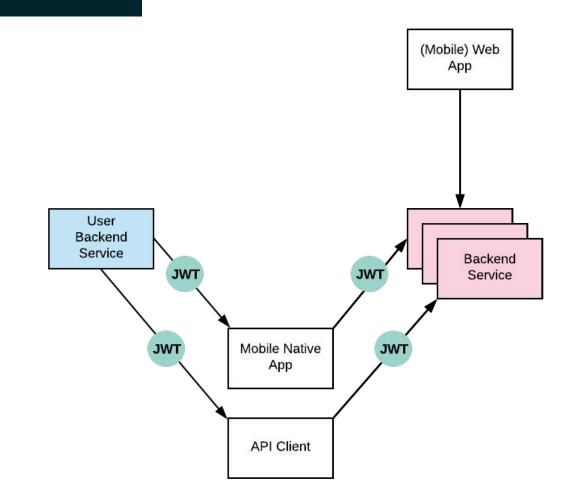
Auth



Authentication

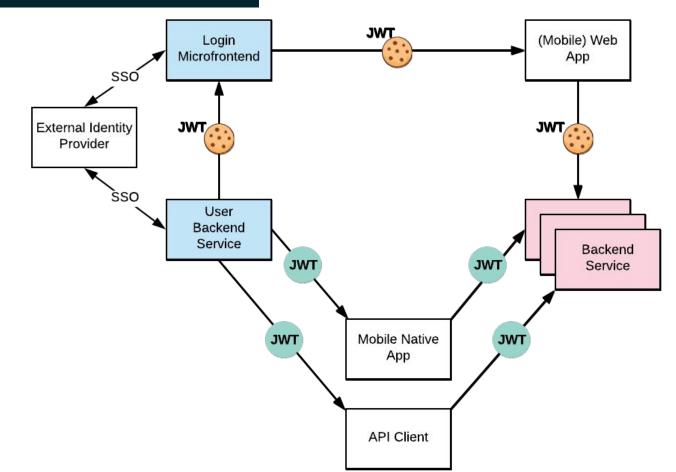
 \mathbf{J}_{SON}

Web
Token





Authentication



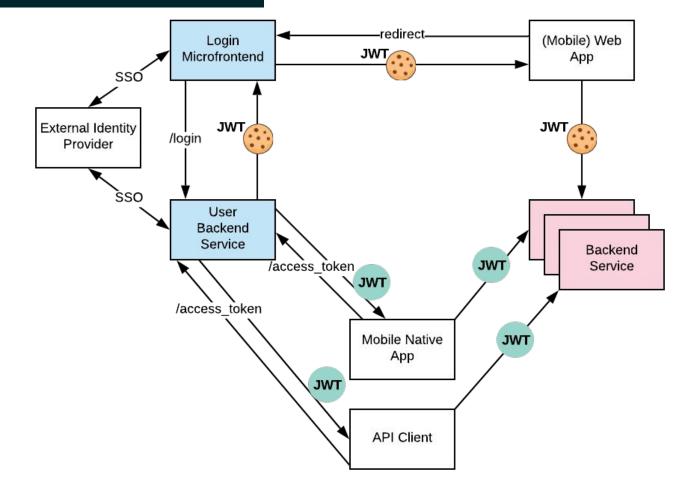


Json

 \mathbf{W}_{eb}

Token

Authentication



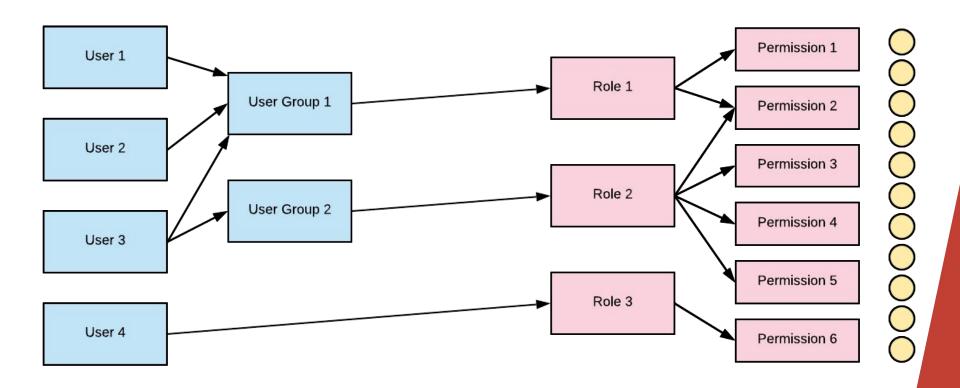


JSON

 \mathbf{W}_{eb}

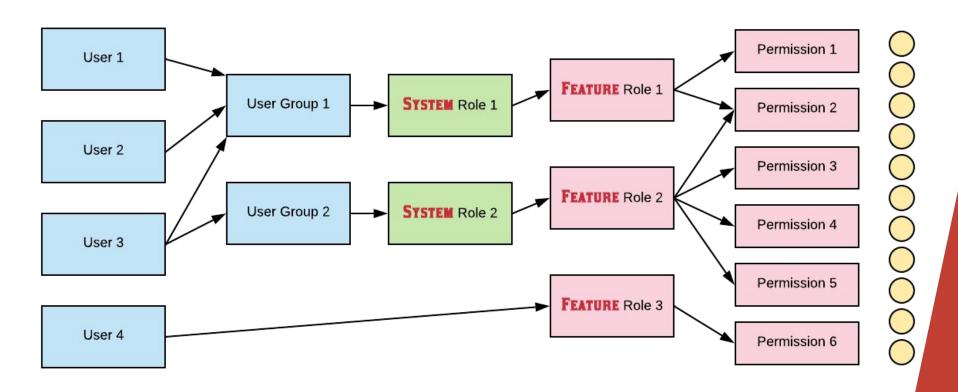
Token

Authorization





Authorization

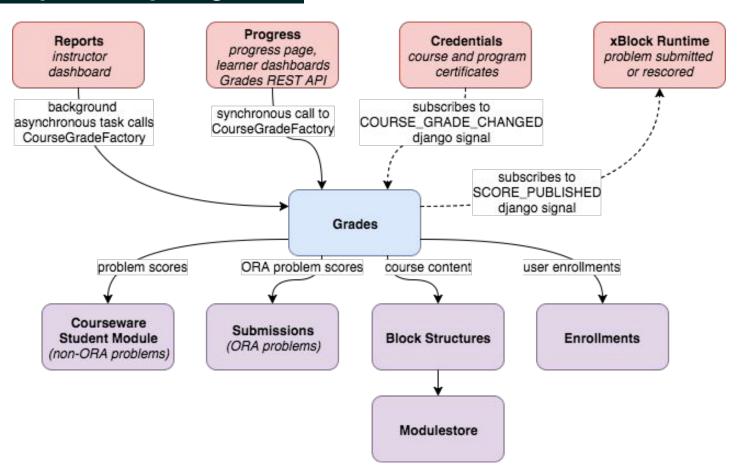




Grades



Grades: Dependency diagram





Studio LMS **Grades: Processing** Web Web Worker Worker Rescore Submit Problem Edit Problem Edit View Grading Course Progress Generate Policy Track/Cohort Content Grade Change Report Celery (RabbitMQ) Auto-scalable, batched Ongoing, steady stream Instructor-driven demand Learner-driven demand **Block Structure** Grades Grades **BATCH** STREAM Update **Processing Queue** (Default) Queue **Processing Queue** Mongo EME AWS S3 SQL Database Database BlockStructures BlockStructures Users Configuration Grades Enrollments Milestones BlockStructures Submissions



Teach Back: Notes







Any questions?

