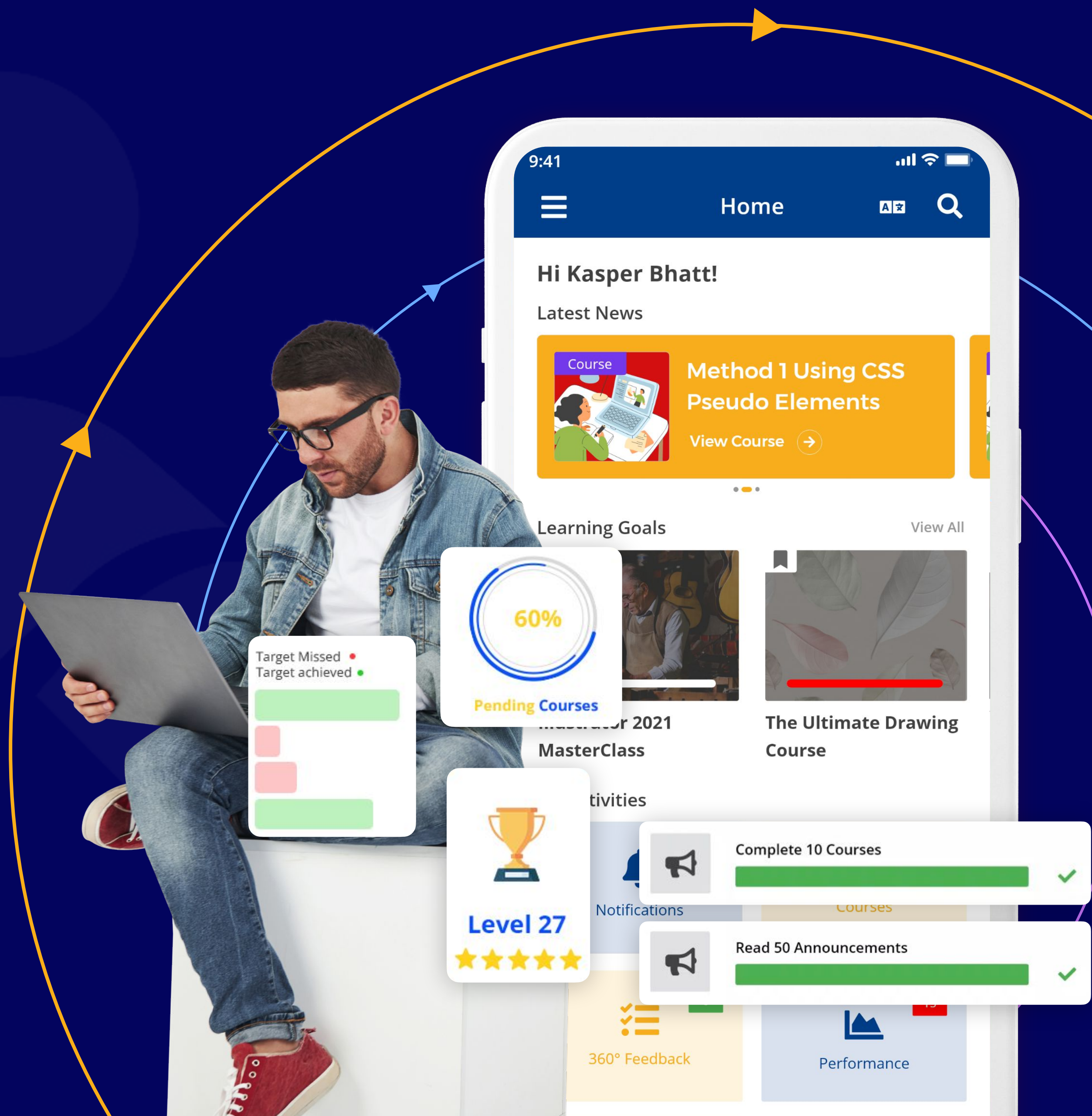




Delivering **360° Employee Growth**

Information Security Documentation

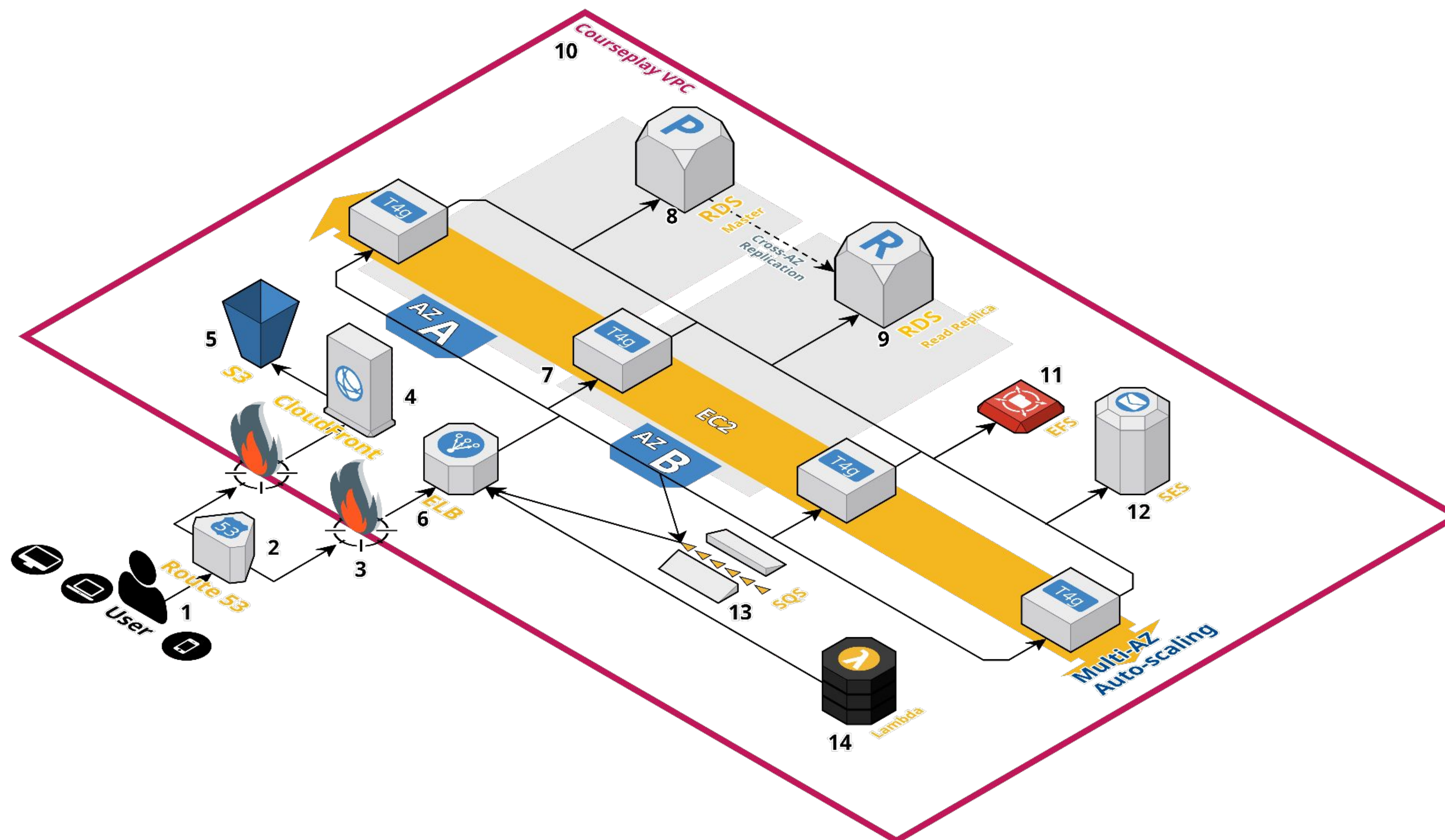
An AI-powered LMS LXP platform that provides on-the-job, social and formal learning





Information Flow Diagram

with AWS





Information Flow Diagram Notes

with AWS

1. The user may access Courseplay through the web portal or the mobile app.
2. Based on the client's custom domain, AWS Route 53 directs the flow of information to the correct server. SSL encryption has been set up to protect requests and data flowing between the client device and the Load Balancer (6)
3. Our Web Application Firewall protects our servers from suspicious activity and hotlinking of content.
4. AWS CloudFront CDN caches and serves content from a nearby Edge Location
5. Any other content not cached is stored and picked up from the S3 bucket
6. Application requests are first greeted by a Elastic Load Balancer that allocates the request to the appropriate application server
7. Application requests and Mobile API requests are handled by the Courseplay application that is hosted on AWS EC2 servers. The EC2 servers scale as per the load on the server. All EC2 instances have agents locally installed to scan for malware, prevent intrusions and conduct other security related checks
8. Database requests are handled by AWS RDS using Aurora MySQL servers.
9. A 'writer' and multiple 'reader' servers are set up for resilience and scalability
10. All AWS services are protected using a virtual firewall known as a "Security Group" as per industry standards and AWS security best practices



Information Flow Diagram Notes

with AWS

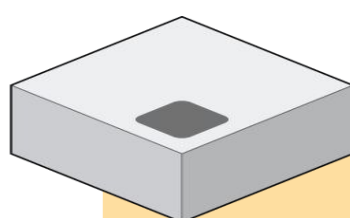
11. The support team has read-only access to the database for support tasks only
12. All access to the environment is logged using CloudTrail
13. Amazon EFS provides a shared file system for storing PHP session data, enabling multiple EC2 instances to access the same session files, ensuring seamless session persistence across servers.
With Amazon EFS, EC2 instances can share files in real-time, allowing applications on multiple servers to access and update shared files consistently, ideal for scaling and load balancing.
14. Amazon SES enables secure, high-throughput email delivery to users, ensuring reliable sending with robust compliance and high deliverability rates
15. Amazon SQS facilitates asynchronous task processing, enabling tasks to be queued and processed independently across distributed application components. It supports automatic retries for failed tasks, ensuring reliable completion even under temporary processing failures.
16. AWS Lambda, when paired with Amazon EventBridge (Scheduler), enables automated, periodic execution of tasks without server management. This setup ensures that scheduled tasks run reliably at specified intervals, ideal for maintenance and batch processing.



3-Tier Server Architecture

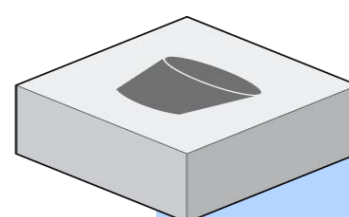
For Stability, Scalability and Security

AWS EC2



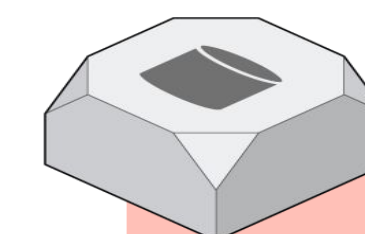
- Virtual servers to host and run the application
- Dynamically scalable
- Easy to maintain and update
- Encrypted at rest

AWS S3



- Content storage server
- Accessible as a web service
- Version controlled
- Accessed securely through CloudFront
- Encrypted at rest

AWS RDS

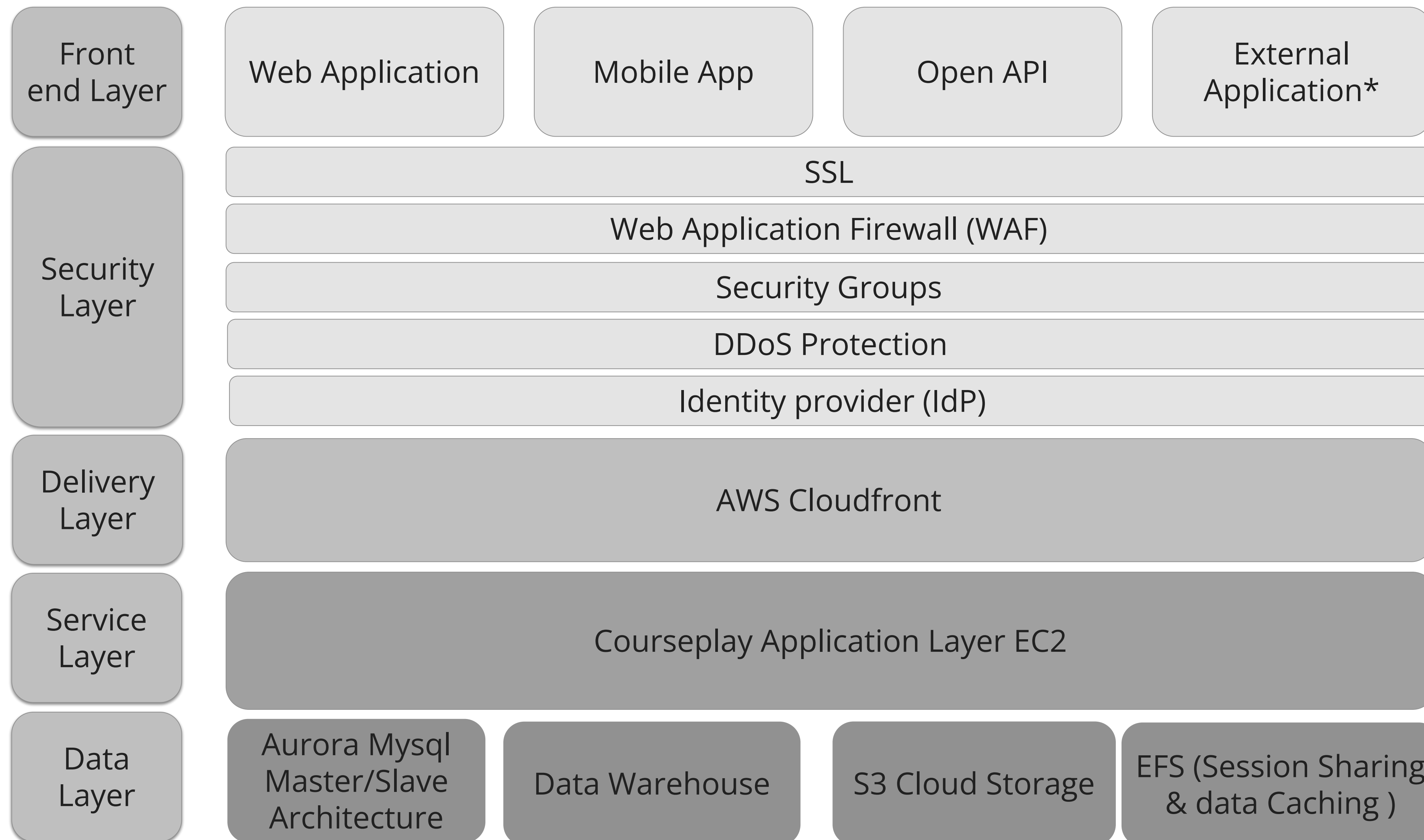


- Relational Database
- Contains all user data
- Dynamically scalable
- Mirrored in different data centers
- Encrypted at rest



Courseplay Cloud Architecture

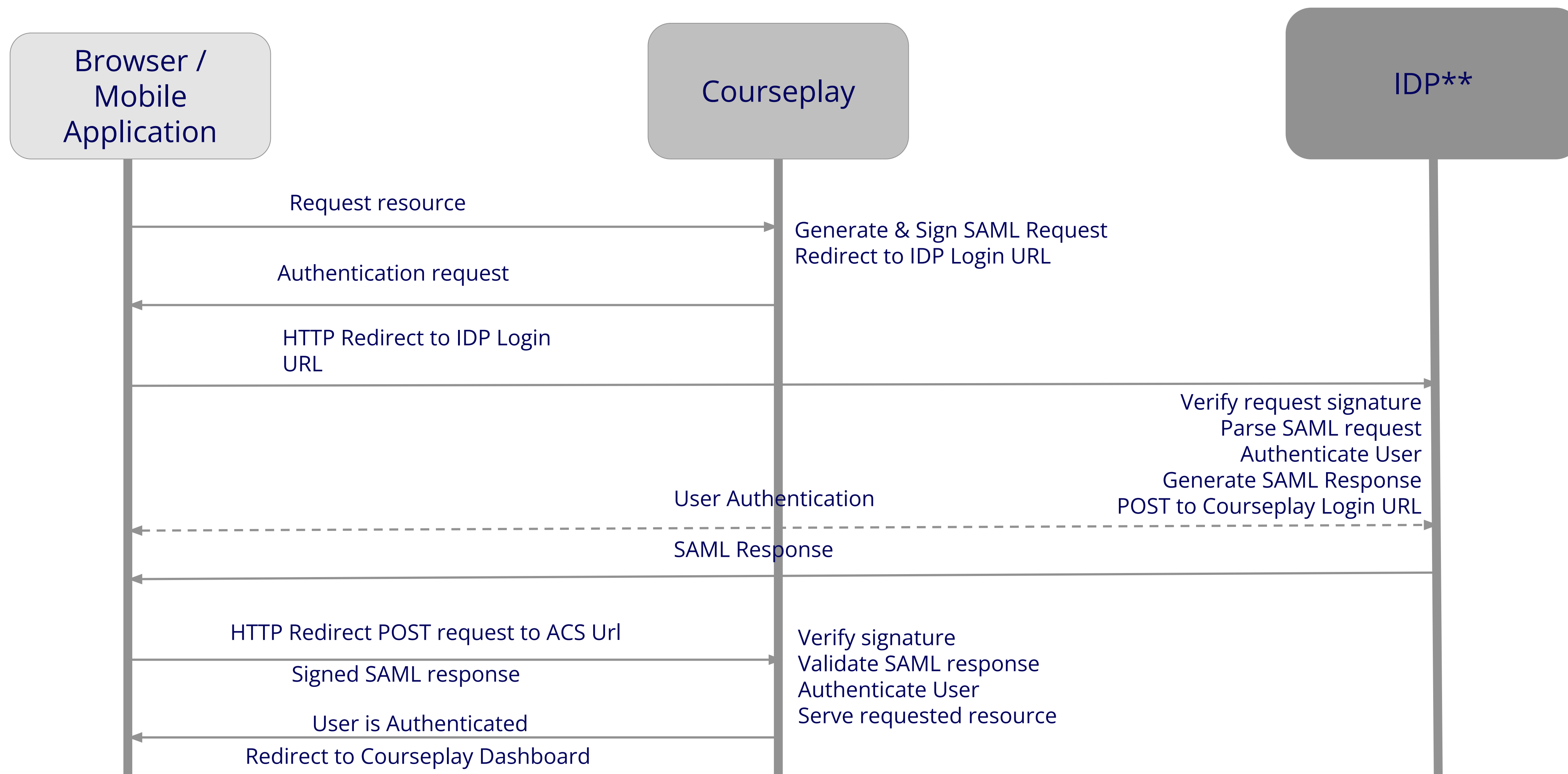
with AWS



- **External applications** can be categorized as LinkedIn Learning or other HRMS or SF LMS, which we have integrated or created the connector as a part of integration which is not a part of our Open API.
- **An Identity Provider (IdP)** is a system or service that manages user identities and provides authentication services to applications or other services. IdPs verify a user's identity and provide information (like authentication tokens or claims) to enable single sign-on (SSO) and secure access to different resources without needing to log in separately each time. Like ADFS, SF, Zimyo, and so on

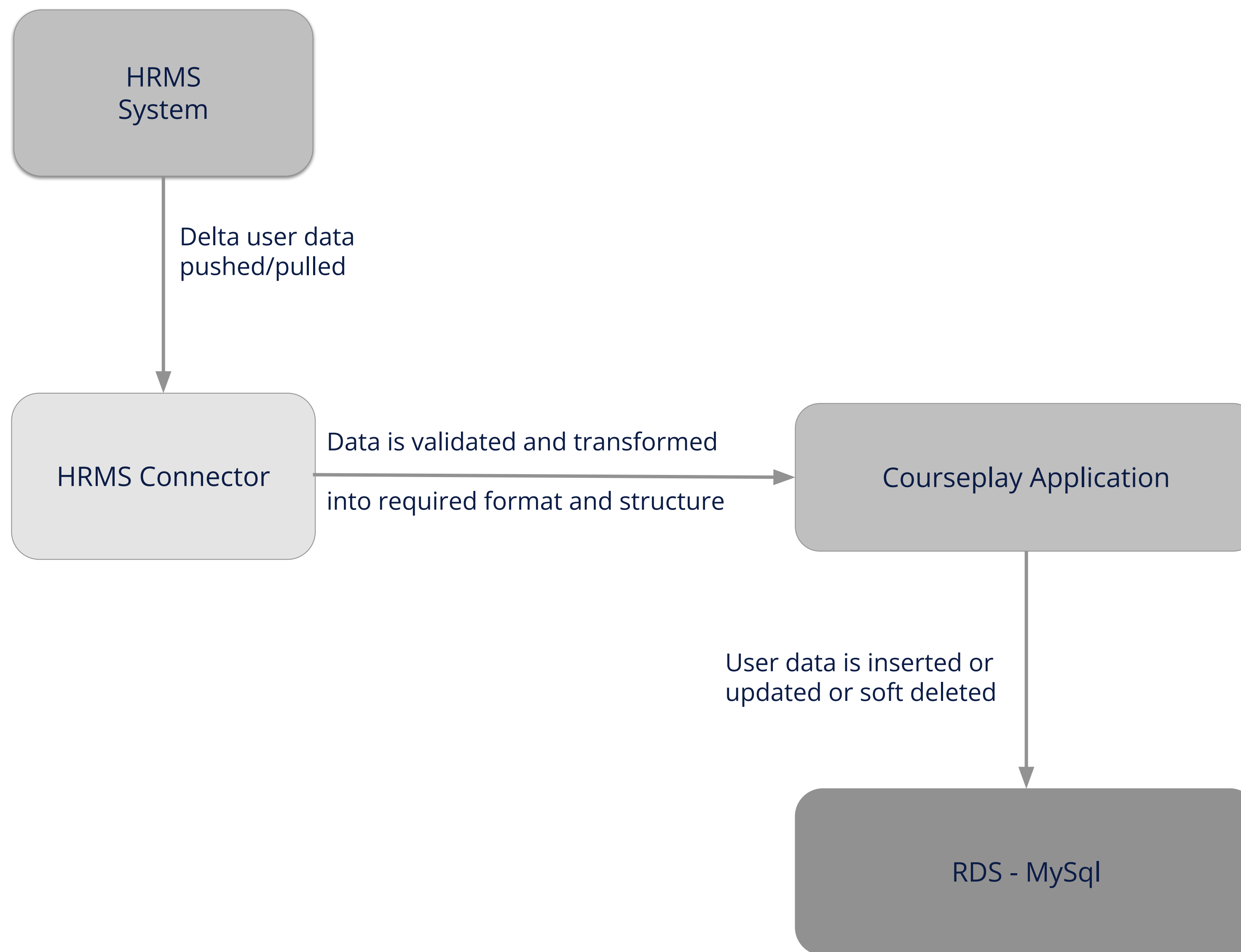


Single Sign On (SSO) Data Flow



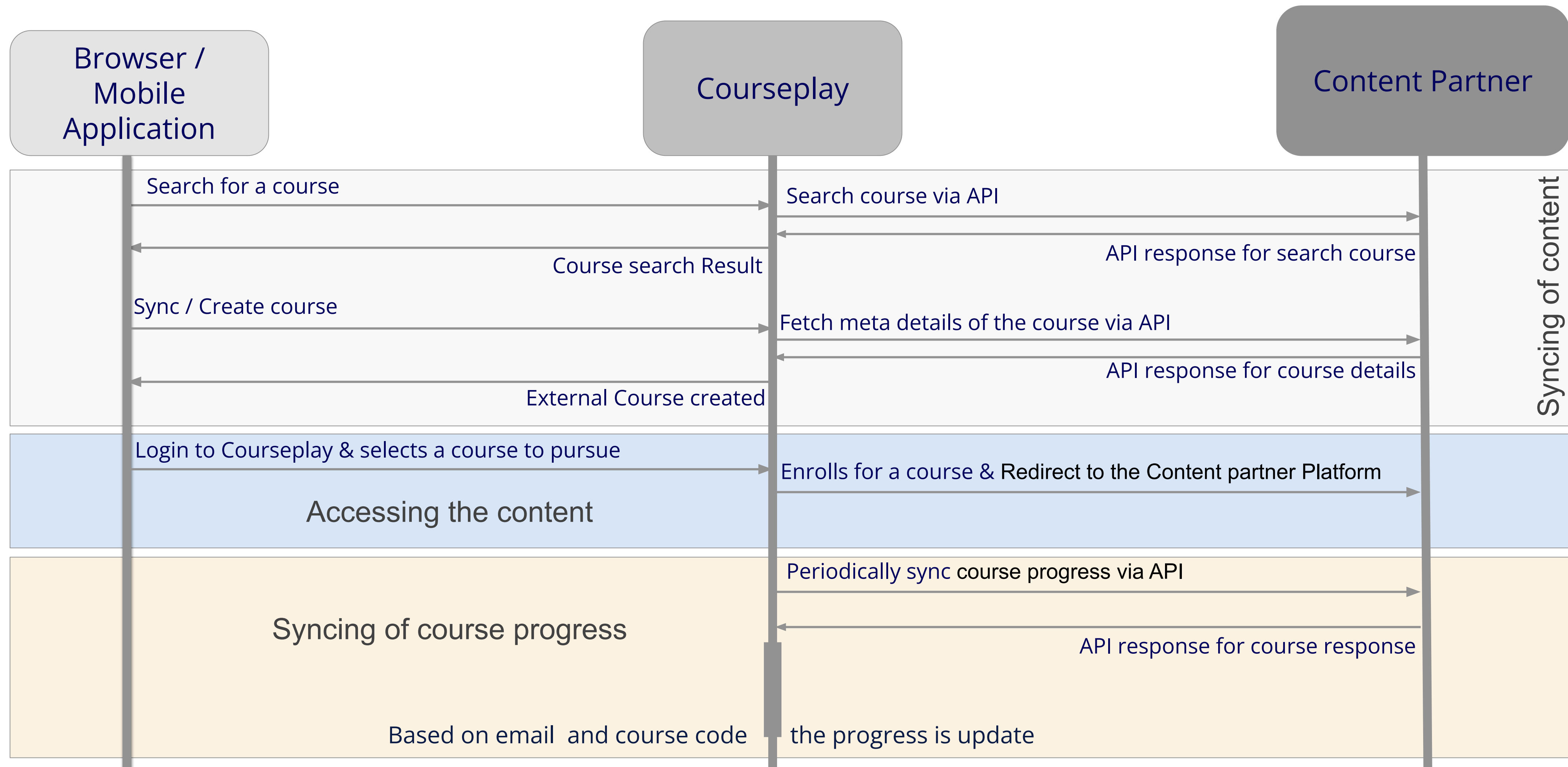


HRS Integration Data Flow



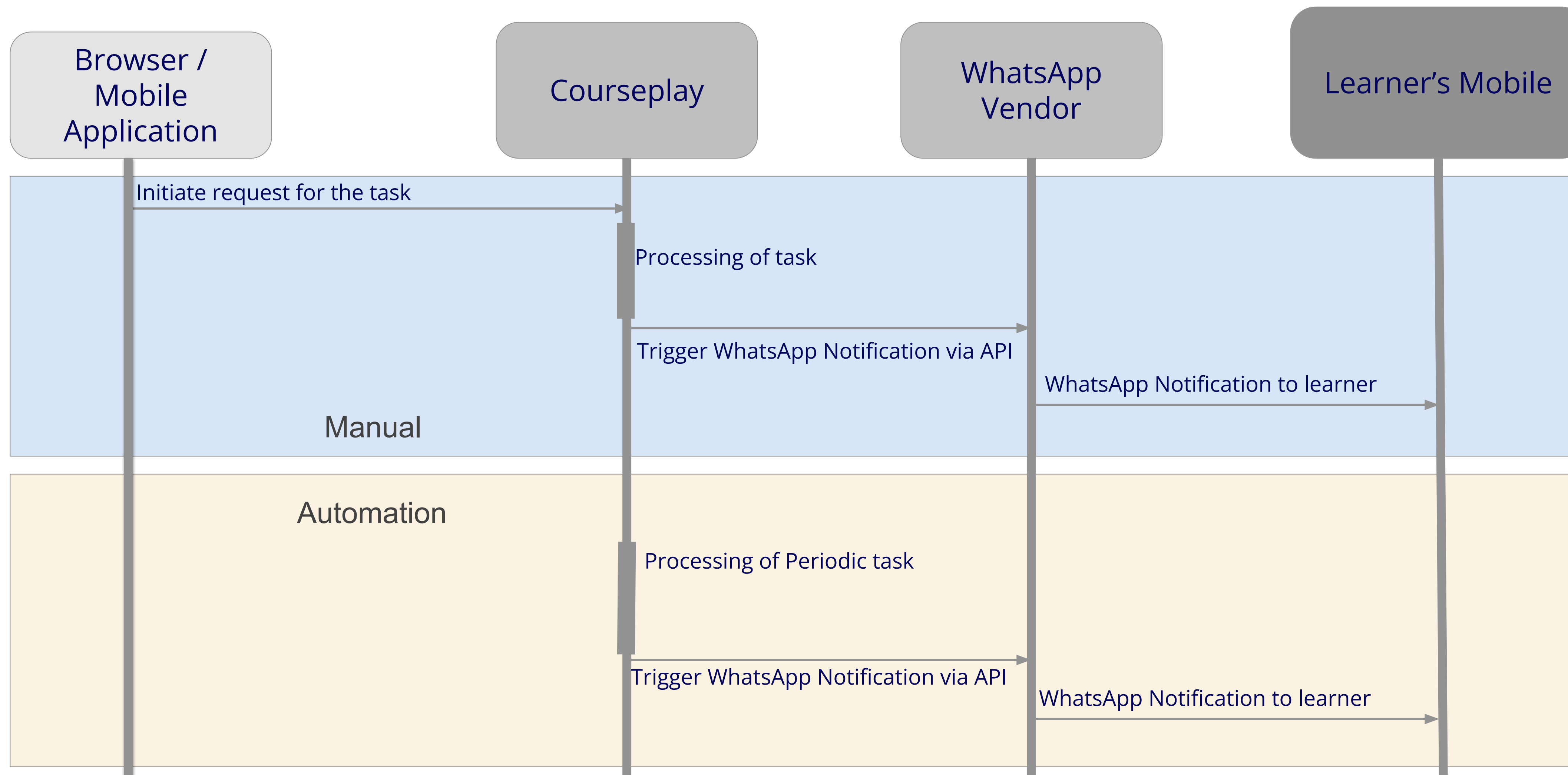


Learning Content API Data Flow





WhatsApp Integration Data Flow



Security
SSL, HTTPS, 2048-bit encryption
Data encrypted on transit
Passwords and sensitive data encrypted at rest
Content and data held behind a protected layer at rest
Multi-tenant Architecture

Compliance
ISO/IEC 27001:2013 Compliant
ISO 9001:2015 Compliant
GDPR EU & UK Compliant
SOC 2 Type 2
Annual VAPT across web, mobile, APIs and LLM