



Tailored Tutoring Co.



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The Online Tutoring Market

- Online Tutoring Industry: Globally valued at \$63.57 Billion
 - Market will double by 2021 (12.75% growth/yr)
 - In the US alone:
 - 11,000 Jobs
 - \$411 million annual revenue

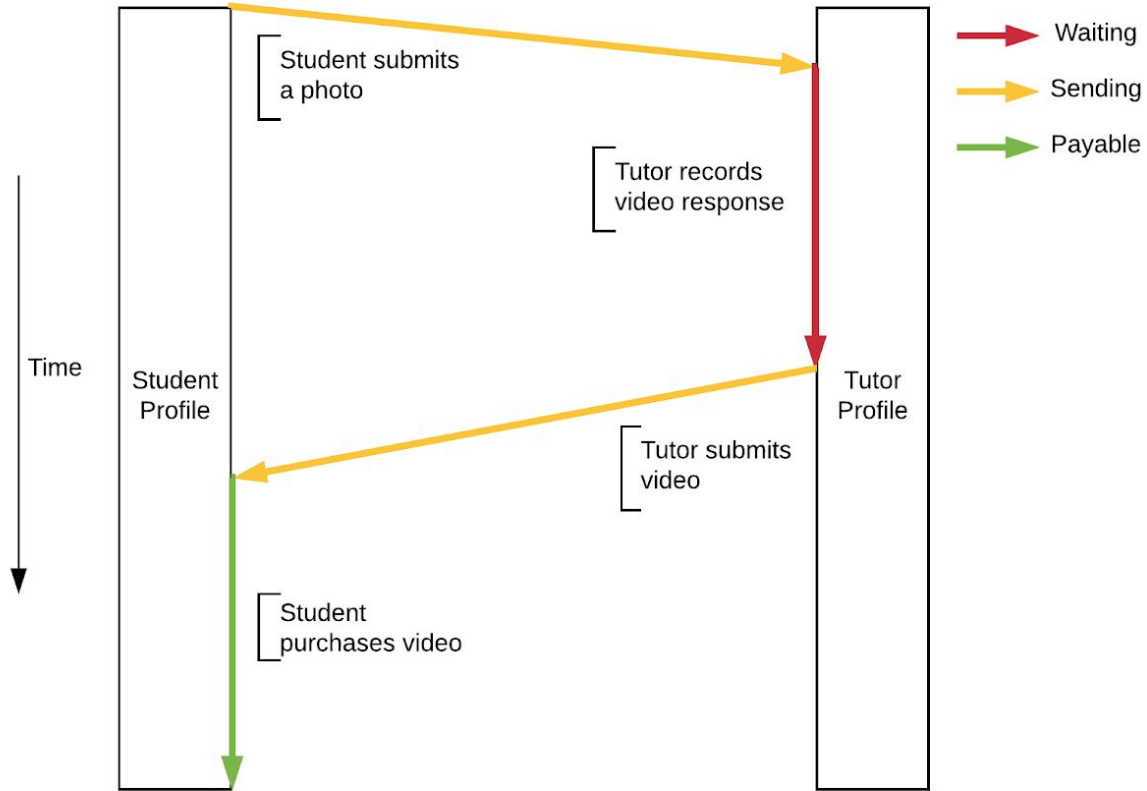


Our Client:



- Tailored Tutoring Co.
- CEO & Founder Rob Lokken
 - Individualized Study Help
 - Homework Submission Service
 - On-Demand Help, no appointments needed
 - Convenient and Easy-to-use

Ideal Service




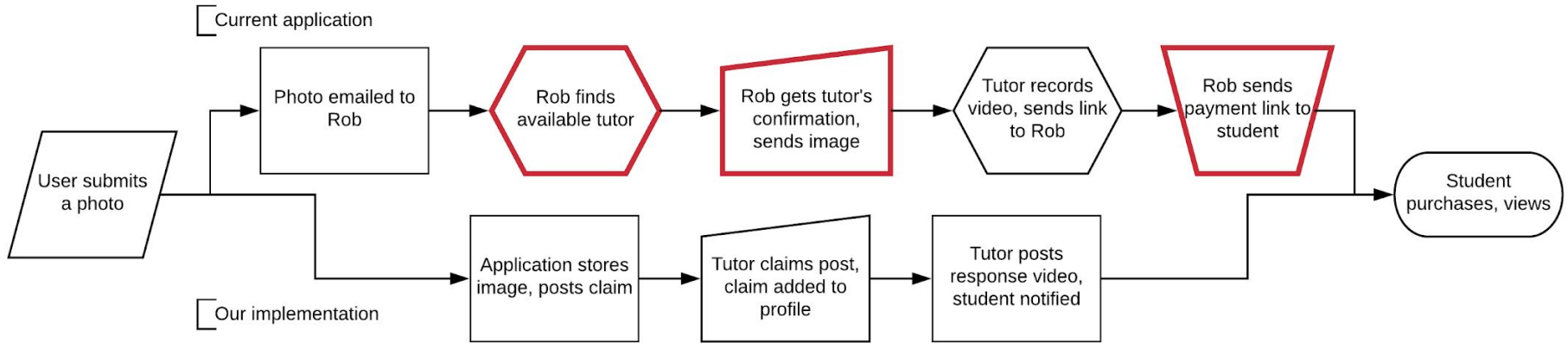


Problem Statement

- Current Process:
 - Not Automated
 - Very Tedious for Mr. Lokken
 - Clunky User-Submission process
- With our implementation
 - Automated & Intuitive
 - Clean User Interface
 - Streamlined Process

Workflow Comparison

 Rob Involved

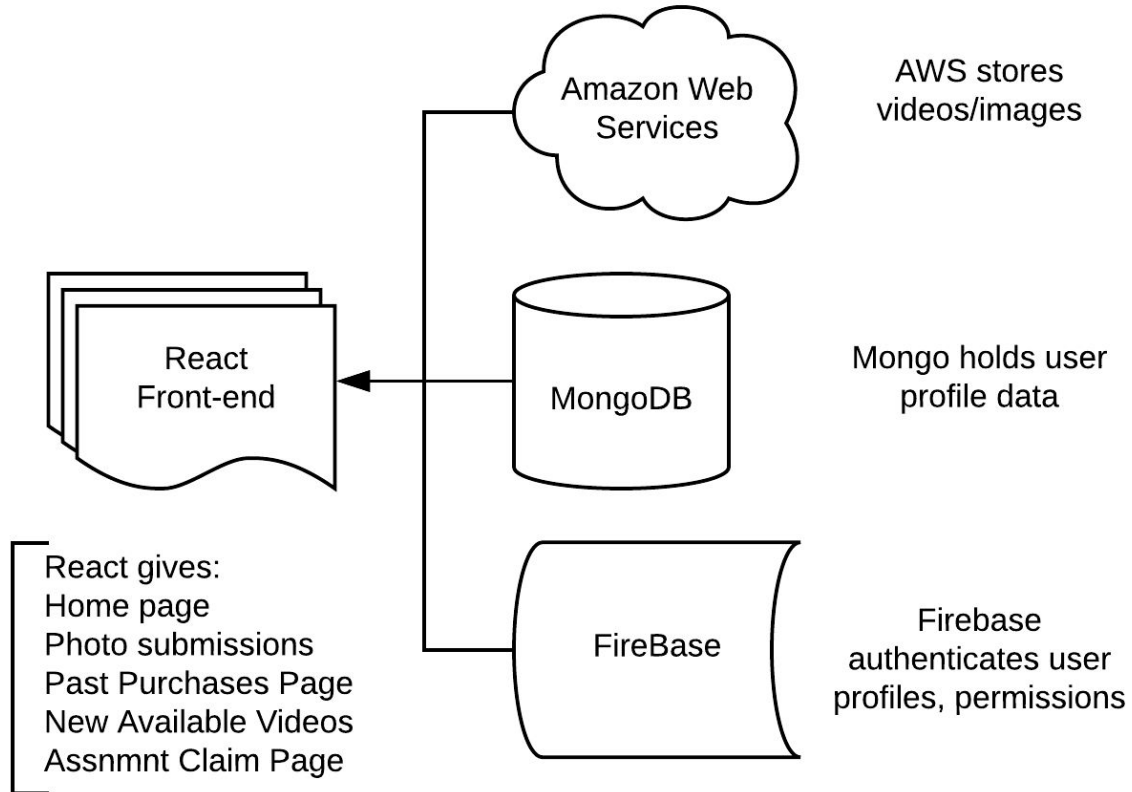




Key Requirements

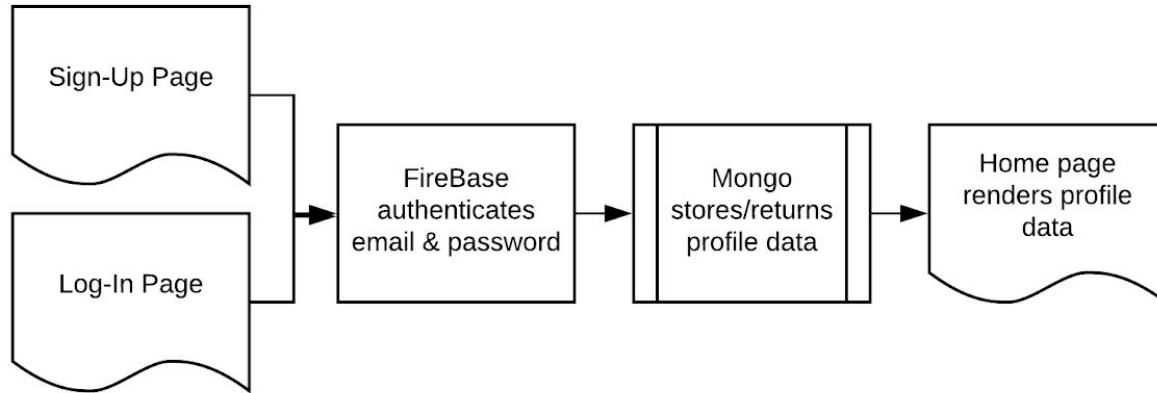
- Student & Tutor Profiles
 - Customizable for each User
- Image and Video services
 - Students' homework photos
 - Tutors' video responses
- Notification System
 - Assignment Claims
 - Video Notifications
 - Email Notifications
- Integrated Payment
 - On-site Payment
 - Third-Party Payment w/ PayPal

Implementation Overview



Architectural Overview

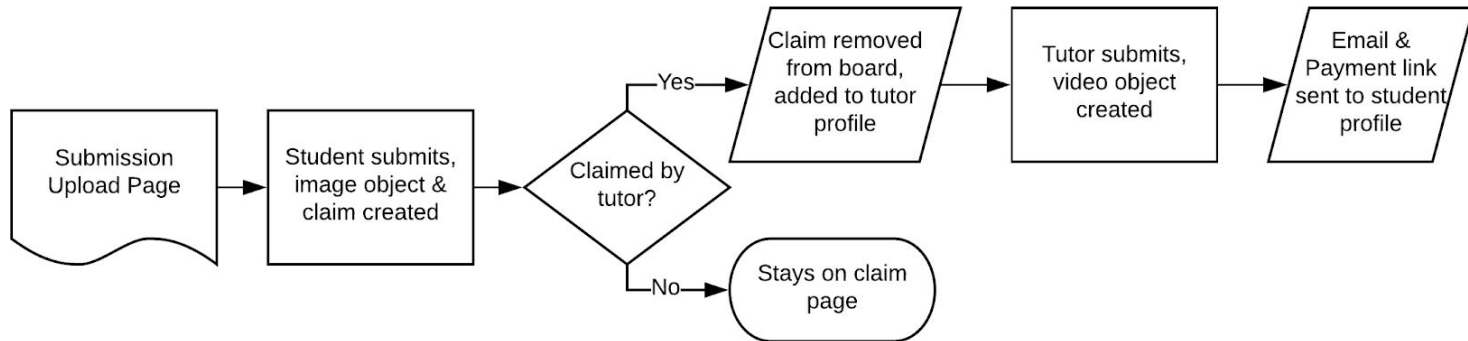
- Profile Creation & Authentication
 - Firebase provides user IDs, requires unique email
 - User data stored in MongoDB



Architectural Overview cont'd

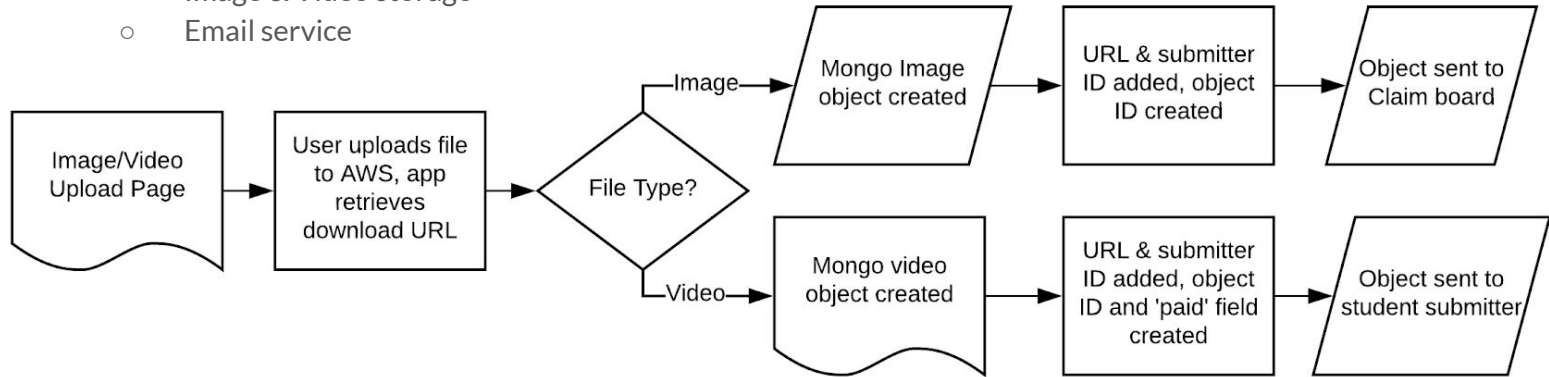
- Assignment Claims & Notification

- Image uploads create a claim, with an Image object and ID. When claimed, claim added to tutor's account.
- Response video sent to student's account, payment prompted



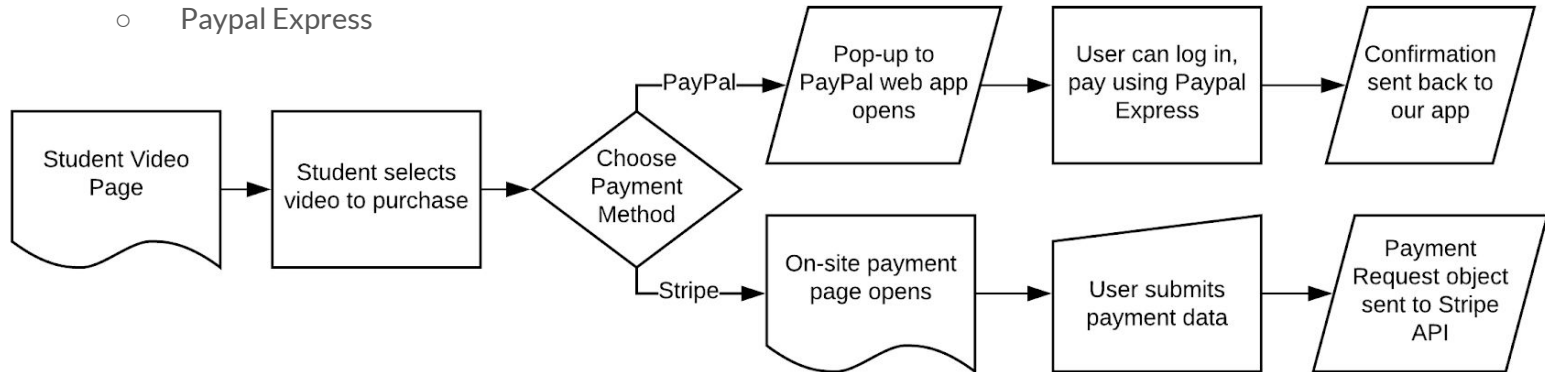
Architectural Overview cont'd

- Amazon Web Services
 - Image & Video storage
 - Email service



Architectural Overview cont'd

- On-site & Third-party Payment
 - Stripe JS
 - Paypal Express

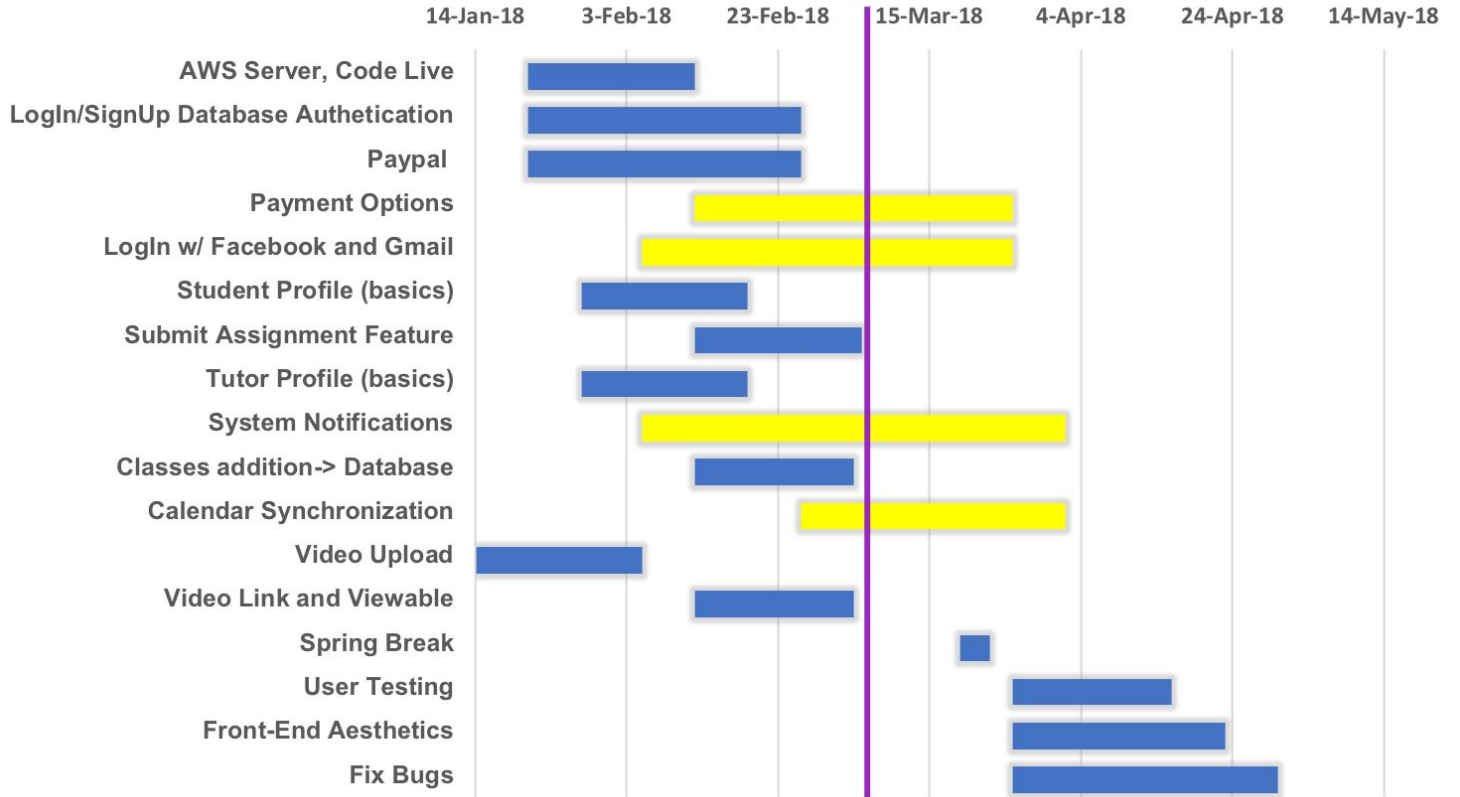




Challenges & Resolutions

- Challenge 1- Payment Options
 - On-Site Payment:
 - Fees
 - Security Risks
 - Paypal Express (Placeholder solution)
- Challenge 2- Link Hw Submissions to Tutors
 - Submissions linking to appropriate tutors
 - Resolution:
 - Claim Board
 - Image/Video Objects
- Challenge 3- Secure Profile Authentication
 - Securing passwords
 - Sensitive data stored outside of state
 - Resolution:
 - FireBase Authentication

Features Timeline



Current Work



Conclusion



- Online Tutoring Platform -> \$\$\$\$
- Sponsor niche: HW Submission Feature
- Sponsor problem: Cumbersome manual operation
- Our solution: Web-Application Platform
 - Automated & Intuitive
 - Clean User Interface
 - Streamlined Process