Below you can find proposed “techstack” of the “internet loans” project:

- **Frontend:**
  - Single page app
    - fast and responsive
    - good caching capabilities
    - better user experience
  - Framework: ReactJS
    - currently the most popular JavaScript framework
    - maintained by Facebook
    - big community, lots of open source libraries
  - Marketing pages as static pages (better for SEO handling)
  - Progressive Web Apps
- **Backend:**
  - Microservices architecture
    - broken down into multiple component services
    - better fault isolation – one broken microservice doesn’t broke whole system
    - code for different services can be written in different languages
    - easy to understand since they represent a small piece of functionality, and easy to modify for developers, thus they can help a new team member become productive quickly
    - scalability and reusability
    - easy to integrate third-party services
  - Potential technologies used to build microservices:
    - Python – popular, easy to learn, big community, lots of open source tools
    - Golang – perfect for latency reduction, excellent performance
    - Node.js – run-time environment that executes JavaScript code outside of a browser, “JavaScript” for servers
  - Test-driven development
    - Unit tests – scripts that test application automatically instead making it manually
    - Keeping test coverage around 90% (number of code lines covered by tests)
    - Continuous Integration – making sure all tests are run for every single change in codebase

- **Servers Infrastructure:**
  - Hosting – Amazon Web Service or Google Cloud Computing
  - Terraform – infrastructure management
  - Docker – containerization
  - Kubernetes – orchestration
  - CodeFresh – CI/CD
  - All above give us flexibility, scalability, zero-downtime deployments, immutable infrastructure, automatic deployments