

# UI roadmap and prototype

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# Current UI Status

- ADS UI (Bumblebee)
  - Single page application
    - JavaScript required
  - Older tech stack
- ADS Core
  - For slow devices
  - Limited workflow
  - Server-rendered (static)
  - No JavaScript

# Goals

- Modernize tech stack
  - NextJS
  - ReactJS
  - 100% Typescript
- Improve developer experience
  - Easier maintenance
  - Easier to add/change features (modular)
- Remove the need for two separate systems to maintain

# Success Criteria

- Faster loading times
- Usable in slow devices and/or slow internet connection
- Server-side rendered content for crawlers without JavaScript (e.g., GoogleBot)
- Accessible from scratch
- Responsive from scratch (computer, tablet, phone...)
- Consider ADS expansion needs from scratch (e.g., themes, moving away from bibcodes)
- Do not break completely the current user experience
- Improve the user experience based on user feedback and user studies

# Implementation

- Hybrid server-side/client rendering
  - Initial request is server-rendered (per route).
  - Subsequent requests are client-side triggered
- Initial experimental design
  - Plan to have prototype(s) for a round of user testing in the future

# Initial Milestones

- Reach functional parity with ADS Core
  - Basic search ability
  - Abstract pages with all subpages
  - Export single records
  - Basic metrics
  - Non-js limited functionality

Demo

[ADS Core](#)

[Nectar](#)

# Work to do

- Continue to add features to match ADS' functionality
  - Facets/filters
  - Authenticated features
    - Libraries
    - User settings