

Design and implement URL shortening service, service that takes long url and generates short and unique url

Basic features of the app:

- Returns a URL that is shorter than the original
- Must store the original URL
- Newly generated URL must be able to link to the stored original
- Shortened URL should allow redirects
- Must support custom short URLs
- Must support many requests at once

Bonus features:

- Unit Tests
- URLs with an expiration period
- Production Ready Code.

Tips:

- Make assumptions wherever the requirement is not clear.
- Think about what the application needs to be production worthy and ready for deployment.
- Think about what other features can be provided as feature enhancements.

Expectations:

- State the assumptions
- High level components/micro services and interaction between components
- Data design
- Technology stack and datastore choices
- Implementation of at least one POST/PUT API