

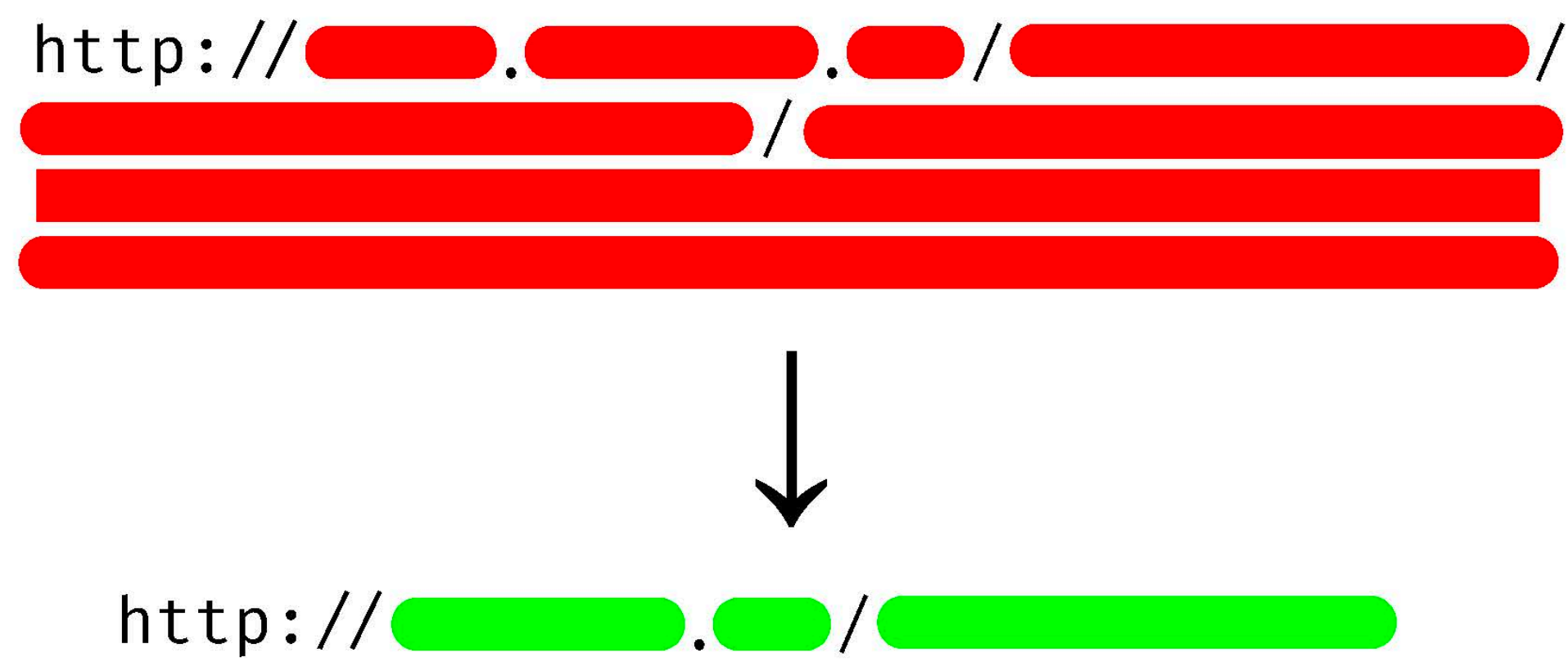
URL Shortener

NC STATE UNIVERSITY

Software Engineering (CSC 510, Fall 2022)

Group 5

What?



A diagram illustrating the generation of a short URL. At the top, a long URL is represented by several red bars. An arrow points down to a shorter URL, also represented by red bars, indicating the process of generating a short version from a long one.

http://[redacted].[redacted].[redacted]/[redacted]/
[redacted]/[redacted]
[redacted]
[redacted]

↓

http://[redacted].[redacted]/[redacted]

Generate
short versions
of long URLs



A diagram illustrating the update of an existing short URL. At the top, a short URL is shown in green. An arrow points down to a long URL (red bars), and another arrow points down to a new long URL (red bars). A red 'X' is placed over the first long URL, indicating it is being replaced or updated.

http://[redacted].[redacted]/[redacted]

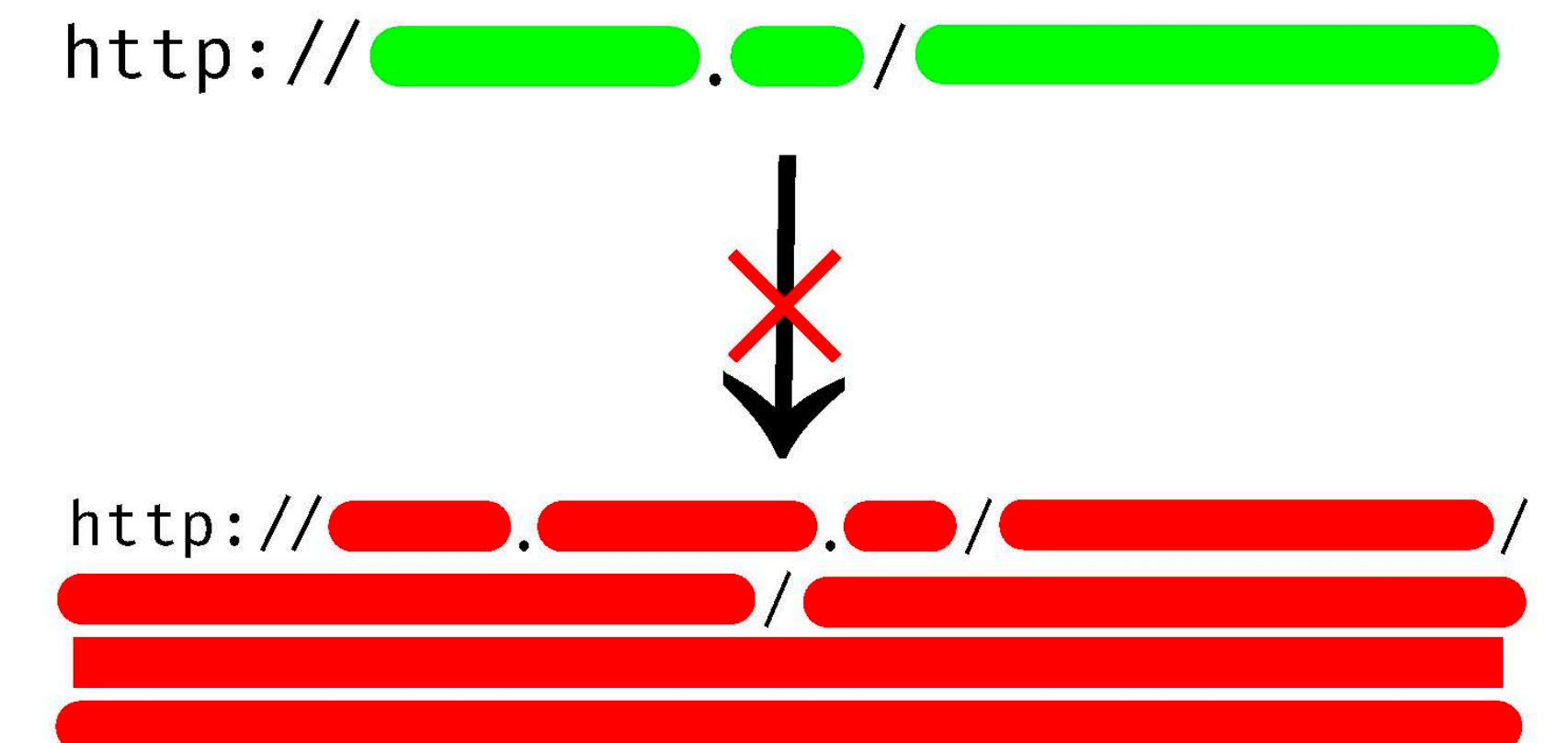
↓

http://[redacted].[redacted]/[redacted]
[redacted]/[redacted]
[redacted]

↓

http://[redacted].[redacted]/[redacted]
[redacted]/[redacted]
[redacted]

Update
existing short
URLs with
new long
URLs



A diagram illustrating the deletion of a short URL. At the top, a short URL is shown in green. An arrow points down to a long URL (red bars), and a red 'X' is placed over the arrow, indicating the deletion of the short URL.

http://[redacted].[redacted]/[redacted]

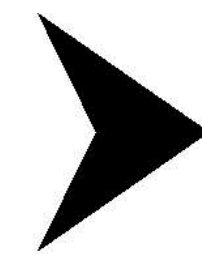
↓

http://[redacted].[redacted]/[redacted]
[redacted]/[redacted]
[redacted]

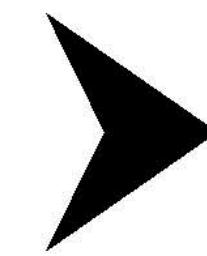
Delete any
URLs you
don't need
anymore

How?

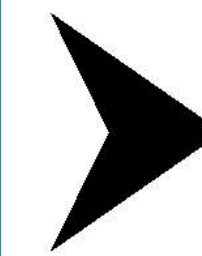
Generate UUID and use it as seed for random number generator



Generate a stub of length 10 with lowercase letters, uppercase letters and digits



Link long URL to short stub and store in database



Take stub as input and redirect to corresponding long URL

Technologies

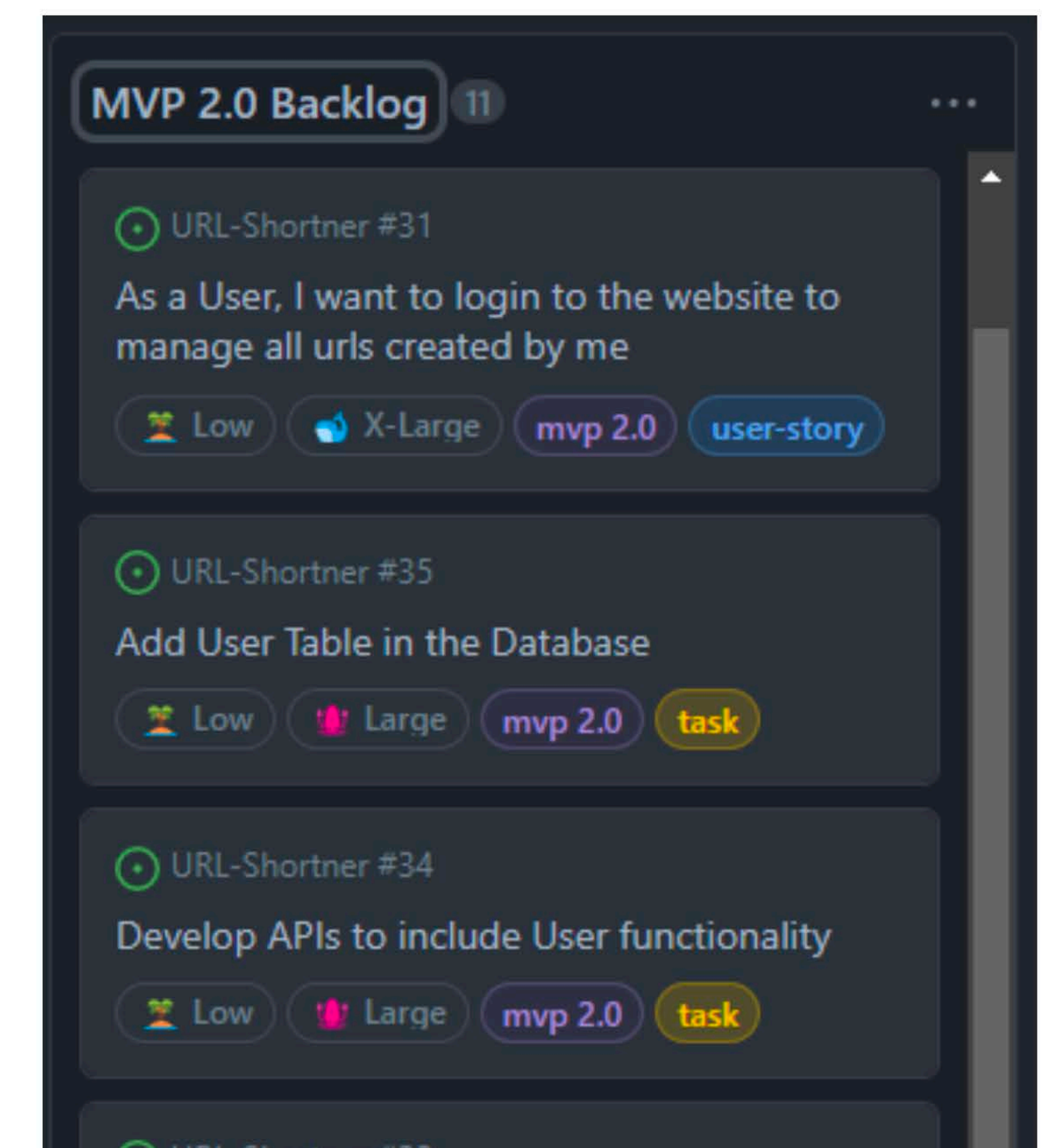


django



Future

- User Authentication
- Links with Expiration Dates
- More tasks marked as MVP 2.0 in GitHub Issues



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