

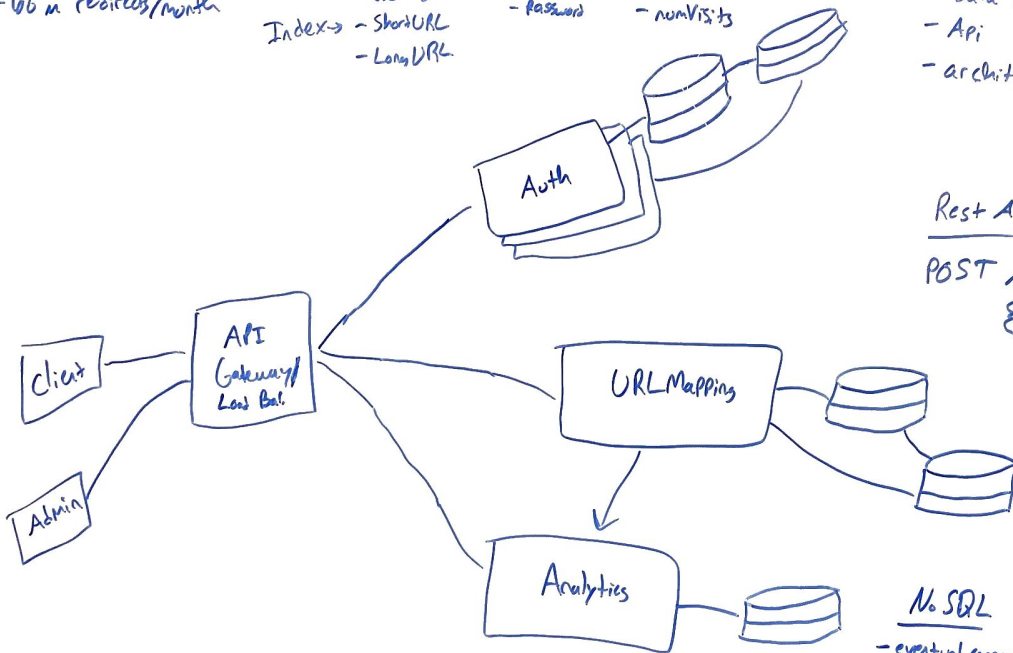
Assumptions

- 1M new URL/month
- 66M redirects/month

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URL Mapping	User	Analytics
- URLID PK	- UserID PK	- URLID
- UserID FK	- Username	- UserID
- ShortURL	- Password	- numVisits
- LongURL		

- Clarify requirements
- Capacity estimation
- Data model
- API
- architecture



Rest API

POST /links

{ longURL: "..."
shortURL: "... (optional)" }

No SQL

- eventual consistency good enough
- Benefit from horizontal partition
- Primary/Secondary
- Horizontal partition by short link

2 new URL/sec
200 redirects/sec
60 GB Storage