

(۱)

All entities: **client, application, url, comment, receipt**

Strong entities: **client, application, url, comment**

Weak entities: **receipt** (corresponds to **application**)

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(۲)

All relations:

- applies (between client & application)
  - application\_url (between application & url)
  - application\_rec (between application & receipt)
  - author (between client & comment)
  - reply (between comment & comment)
- 

(۳) موارد خواسته شده در این قسمت در سوال ۴ گفته شده اند.

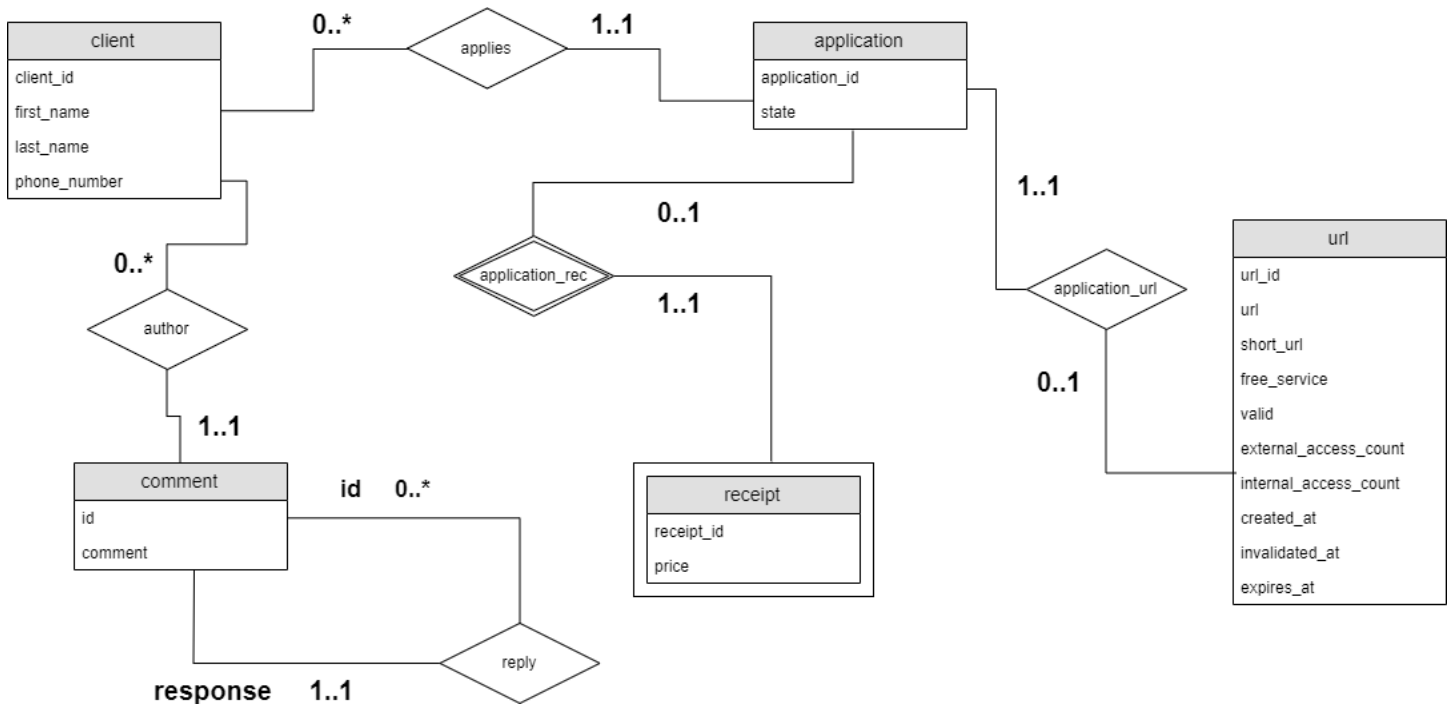
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(۴)

- client
  - client\_id (int, primary key)
  - first\_name (string)
  - last\_name (string)
  - phone\_number (string)
- application
  - application\_id (int, primary key)
  - state (string in => ("pending", "rejected", "approved"), default "pending")
  - client\_id (int, foreign key (client => client\_id))
  - url (int, foreign key (url => url\_id))
- url

- url\_id (int, primary key)
  - url (string)
  - short\_url (string)
  - free\_service (boolean)
  - valid (boolean, default 1)
  - external\_access\_count (int, default 0)
  - internal\_access\_count (int, default 0)
  - created\_at (timestamp)
  - invalidated\_at (timestamp)
  - expires\_at (timestamp)
  - comment
    - id (int, primary key)
    - comment (string)
    - response (int, foreign key (comment => id))
    - author (int, foreign key (client => client\_id))
  - receipt
    - receipt\_id (int, primary key)
    - price (float)
    - application (int, foreign key (application => application\_id))
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(۵)



(۶)