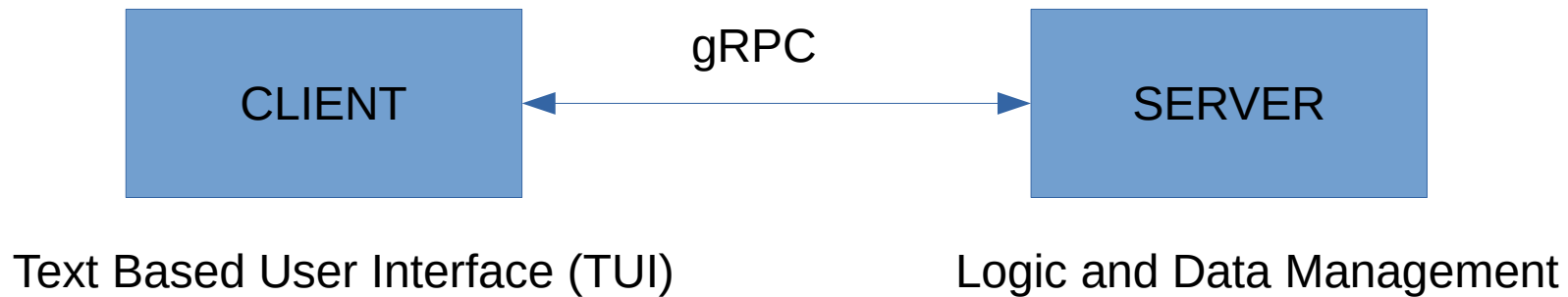




E Learning API

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Project Architecture



Data Management



- In Server we have 3 variables to store data:

```
var kumpulanSoal = map[string]map[string]map[string][]Soal{  
    "Kelas 1": map[string]map[string][]Soal{},  
    "Kelas 2": map[string]map[string][]Soal{},  
    "Kelas 3": map[string]map[string][]Soal{},  
    "Kelas 4": map[string]map[string][]Soal{},  
    "Kelas 5": map[string]map[string][]Soal{},  
    "Kelas 6": map[string]map[string][]Soal{},  
    "Kelas 7": map[string]map[string][]Soal{},  
    "Kelas 8": map[string]map[string][]Soal{},  
    "Kelas 9": map[string]map[string][]Soal{},  
    "Kelas 10": map[string]map[string][]Soal{},  
    "Kelas 11": map[string]map[string][]Soal{},  
    "Kelas 12": map[string]map[string][]Soal{},  
    "Umum": map[string]map[string][]Soal{},  
}
```

Kelas → Mata Pelajaran
→ Tema → array of Soal
(Pertanyaan, Jawaban,
array of Pilihan)

```
var userInSession userData
```

```
var userDataList = map[string]userData{}
```

Username → UserData
(Username, Password,
Nama, Umur, Status)

Who are the users?

- This API is mostly for students, but not limited to only students.
- Everybody who wish to study can make questions and do them repeatedly
- “The best way to Learn is to teach” - Shirleen

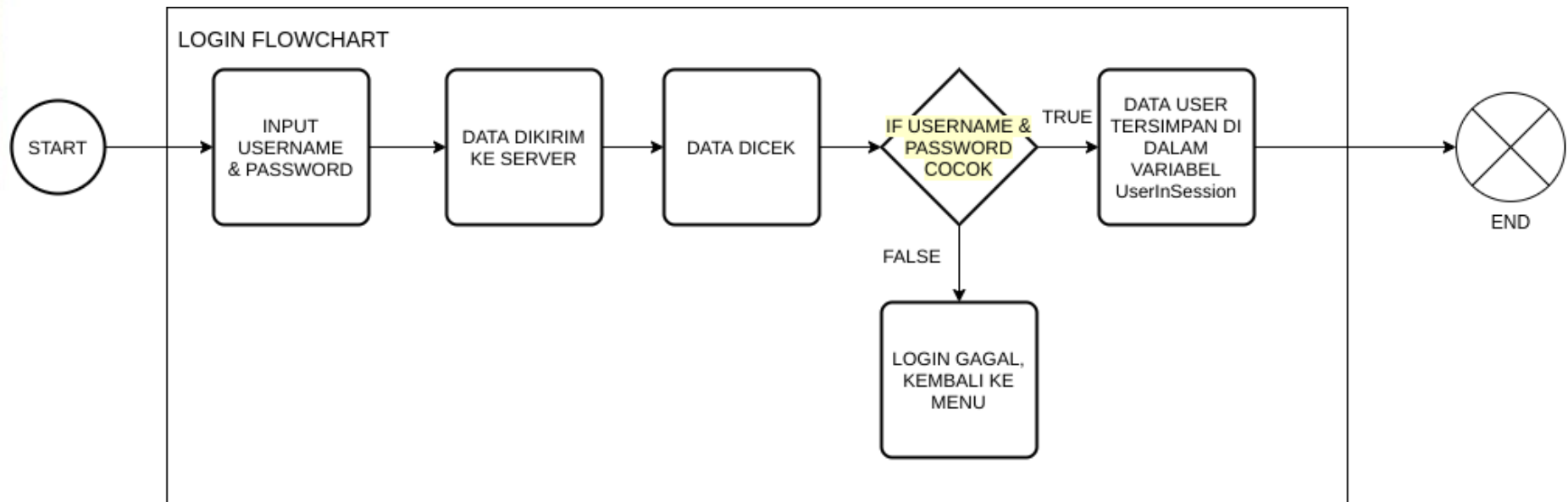


Our Features

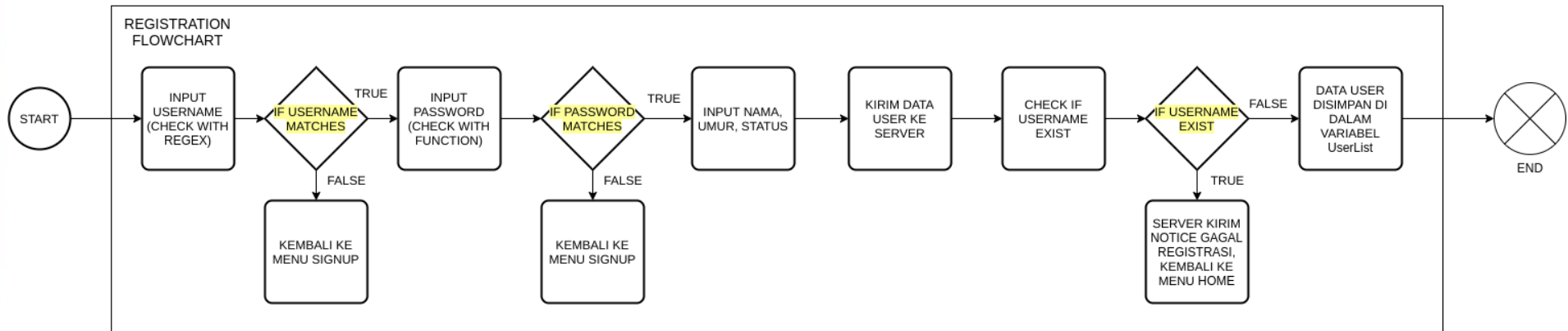
- User Login
- User Registration
- Do Practice
- Make Practice



User Login

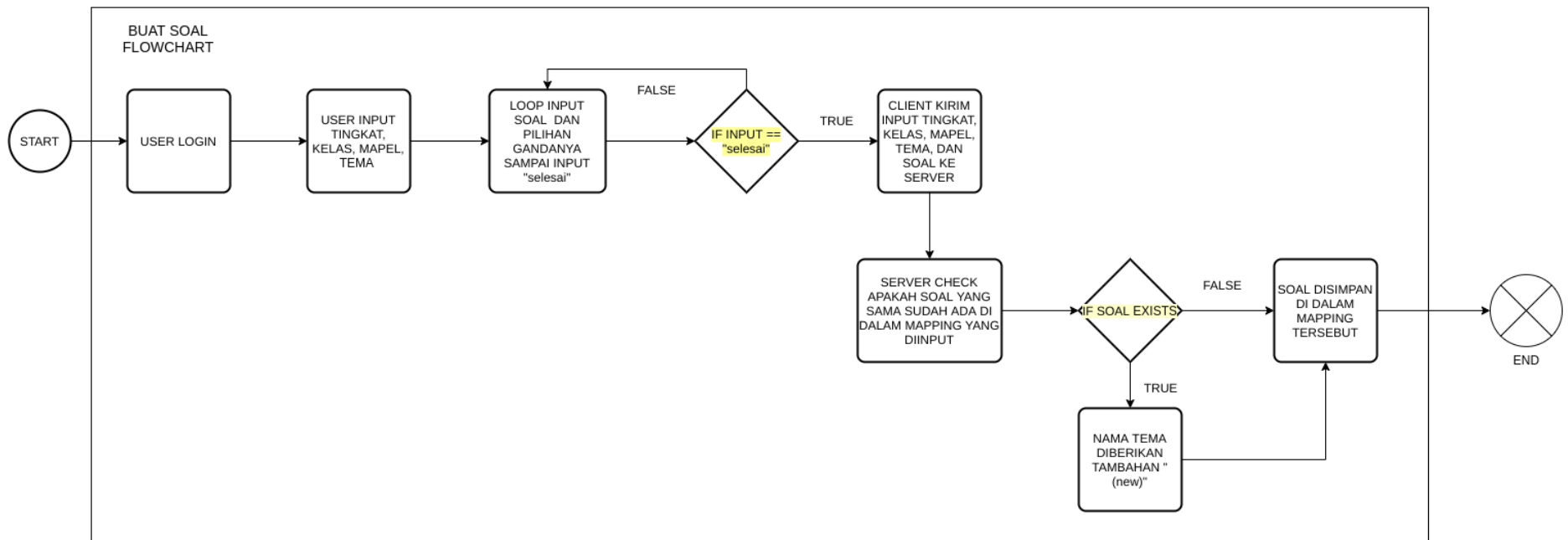


User Registration



- Username and Password have to match with the requirements.
- Username (which is email) is unique. If the same username is exists, user will be unable to register.

Make Practice

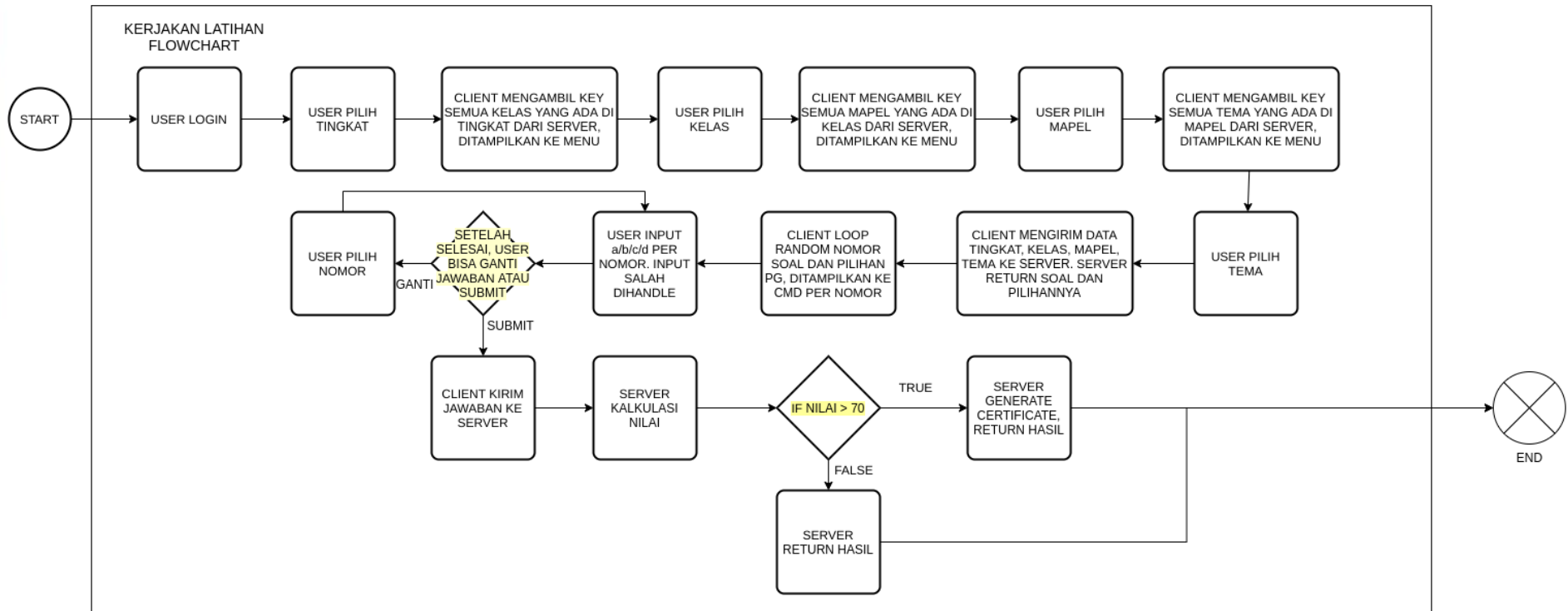


- User makes an array of Soal (number of Soal is not limited) in the client and send it to the server
 - User cannot make an empty array of Soal, client will refuse to send.
 - User cannot make same answer choices, client will loop to check.
- User can make same Kelas, Mapel, and Tema, but server will rename the Tema automatically before saving it.

Do Practice



- User login
- The menu is shown dynamically (only existing practices are shown)
- Questions and the choices are shuffled. Everytime user do a practice, they will not be in the same order, making the practice harder and the user smarter.
- User can change answer before submitting them for scoring
- User can get a certificate (a .txt in this case) if score is 70+



THANK YOU

