



**TECHNICAL DOCUMENT
SCHOOL E COMMERCE PLATFORM**



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A. BACKGROUND

Private schools that are not popular are often constrained in do promotions to attract prospective students in the new academic year due to high promotions and a lack of marketing skills from the school's public relations. This results in the number of prospective students decreasing every year. This problem often results in a downgrade of education quality in these schools due to a lack of funds so that schools cannot obtain adequate facilities to improve their education quality.

This marketing problem can be minimized by providing a platform that allows schools to carry out promotions similar to the e-commerce systems that are widely available these day, so that prospective students can get detailed information about the school in terms of majors, costs, facilities and other things. . In addition for these features, this platform should simplify the registration flow of prospective students by providing a one-site service feature, where when prospective students want to register at the school they have chosen, they only need to register and fill in the data on a predetermined form directly on the platform. then the data can be accessed by the target school for later follow up.

B. OBJECTIVE

Objectives of this platform are:

1. Make an easy promotions for schools
2. Make an easy registration for prospective student
3. Simplify school registrations flow
4. Increase prospective student quantity for unpopular schools
5. Trigger schools to improve their facilities, education quality and other essentials sector of education

C. ARCHITECTURE

- Platform domain will be differentiated both for prospective student and school authorities
- Platform traffic will be able to access 24/7
- Data backup, all data will be backed up in two different databases
- Interoperability, applications will be interoperable with other system
- All password will be secured with md5 and other encrypt tools



D. TECHNOLOGIES AND FUNCTION

| System | Interface |
|-----------------|-----------|
| Platform Server | REST/JSON |
| School Server | REST/JSON |

| Function | Platform |
|-----------|-----------------------------|
| UI Design | Figma, Invision, Photoshop |
| Frontend | PHP, HTML, Js, CSS |
| Server | Nginx, Apache |
| Connector | REST, JSON, SMTP, SMS GW |
| Database | Mysql, Firebase, PostgreSQL |
| Backend | CodeIgniter, Golang |

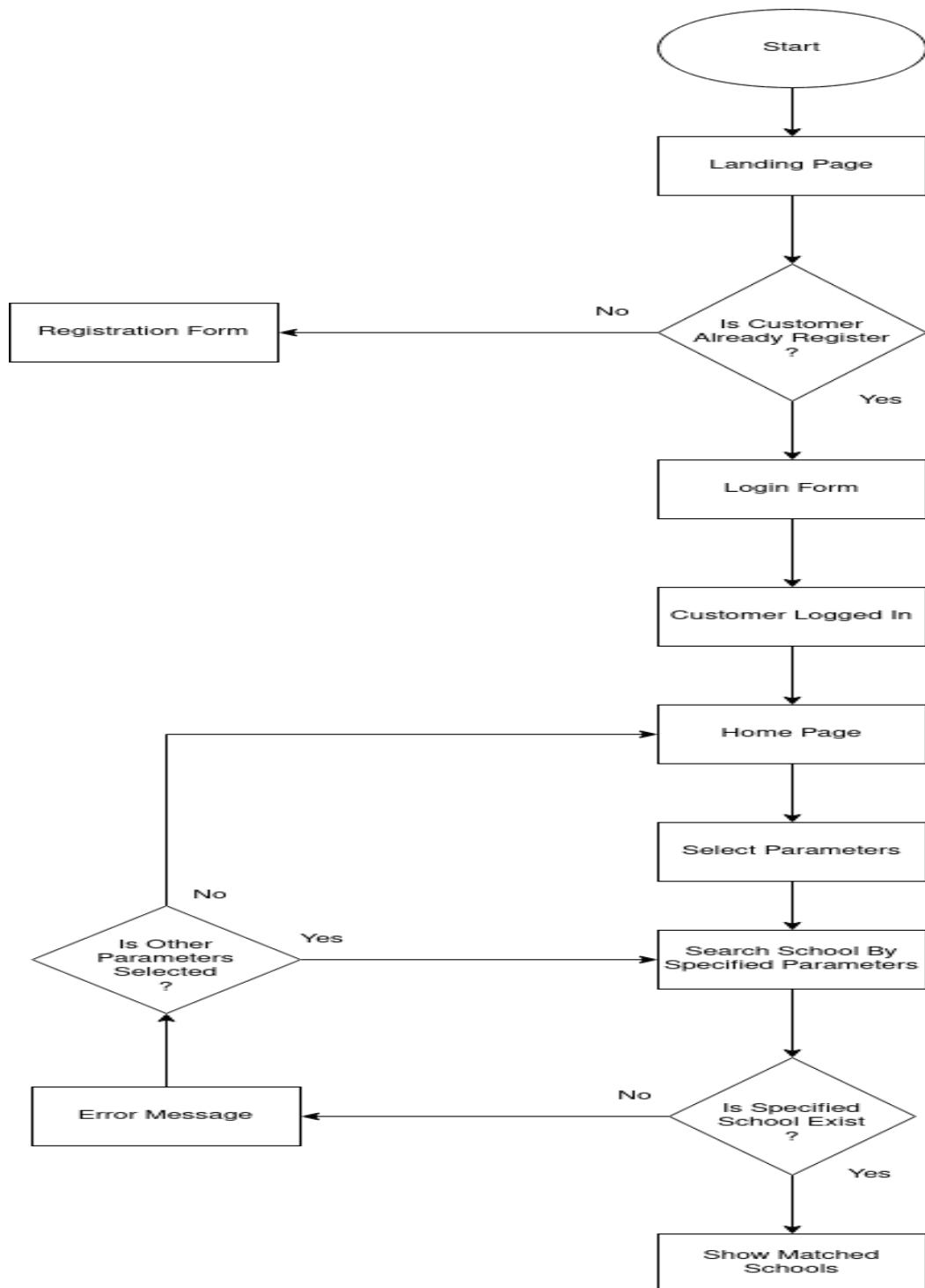
E. DATA

| | |
|----------------------------|----------------|
| School | Name |
| | Address |
| | Type |
| | Major |
| | Extras |
| | Facilities |
| | Other Info |
| Prospectice Student | Name |
| | NISN |
| | Prefered Major |
| | Other info |



F. FLOWCHART AND WORKFLOW

- Flowchart





- Sequence Diagram

