To build exchange rate currency following are the steps :

**Server Requirements**

* PHP >= 7.0.0 (including PHP 7)
* OpenSSL PHP Extension
* PDO PHP Extension
* Mbstring PHP Extension
* Tokenizer PHP Extension
* XML PHP Extension
* GD PHP Extension
* Fileinfo PHP Extension
* Xdebug Max Nesting Level (>= 500)

**Software/package used**

* 1. PHP should greater or equal to 7.0.0
  2. Used Apache 2.2 server and mysql 5.6 innodb
  3. Laravel framework : 5.5 (installed by using composer)
  4. Used theme elegant 1.0 for look and fill.
  5. For getting latest currency rate I used laravel package “danielme85/laravel-cconverter” version 0.3.0 Reference : <https://danielmellum.com/projects/currency-converter>

**Folder Description**

* 1. Application have controllers folder under app folder which having code to interaction with database and retrieve data.
  2. Views folder having all the html under resources folder
  3. .env file having configuration details i.e. database , user and password details
  4. Tables file under app folder i.e. each table having separate file.
  5. Routes folder having the web.php file where url pattern assigned according to controllers with its function name.
  6. Different packages of laravel installed through composer by using artisan cli.
  7. Tests folder having file in which test cases written . I have written 4 test cases
  8. Folder with name documents are having DataFlow Diagram, Database Schema Design

For mail sending when user register : I have used sendgrid so when sendgrid account details put in .env file then only mail option works. It will not be work in localhost.

For user registration page I have used only required fields not included optional fields . Optional fields can user edit in user edit profile page with change password feature.

**Deployment :**

1. Download the zip file and extract in server .
2. Change the .env file according to databasename, database username and password .
3. Upload the sql file into database.
4. For local you must have xampp, composer and follow the above steps same .
5. Database which is in sql format with schema design in sql folder