
PROJECT: E-Learning Management System
GROUP NO: Group03 BATCH: T2.2410.E0

A. SYSTEM REQUIREMENTS:

Sr.	Item	Description
1.	Operating system	Windows 10/11 (64-bit)
2.	Database	MySQL 8 (XAMPP), phpMyAdmin
3.	Hardware	Node.js \geq 18, npm; PHP \geq 8.1; Composer; XAMPP (Apache + MySQL)
3.	Fonts	Unicode: Arial, Tahoma, Lucida Console, Times New Roman
4.	IDE	Visual Studio Code

B. Setup MySQL (XAMPP)

Step 1. **Open XAMPP Control Panel → Start Apache and MySQL**

Step 2. Open **phpMyAdmin** (<http://localhost/phpmyadmin>).

Step 3. Create new database, charset utf8mb4, collation utf8mb4_unicode_ci.

Step 4. (Optional) Create a separate user for the DB (not root) and grant permissions

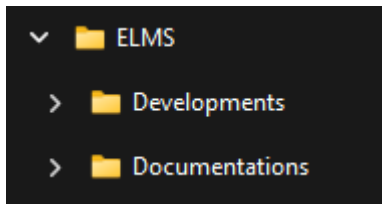
Step 5. **Import database.sql file (if the team provides seed/dump).**

If MySQL runs on a port other than 3306, make a note of it in the .env Configuration section.

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C. Setup

1) Get the source code



2) Backend (Laravel)

cd backend

composer install

cp .env.example .env

php artisan key:generate

Edit **.env** :

```
APP_NAME=Laravel
APP_ENV=local
APP_KEY=base64:kCYwSN1Qvju6Bw2TO485xfQMY+QcI0ngJqskjUV9wR4=
APP_DEBUG=true
APP_URL=http://localhost

LOG_CHANNEL=stack
LOG_LEVEL=debug

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=elmsdb
DB_USERNAME=root
DB_PASSWORD=

# ===== Broadcaster / Queue =====
BROADCAST_DRIVER=pusher
QUEUE_CONNECTION=database # để notification broadcast qua queue, nhớ chạy
"php artisan queue:work"
CACHE_DRIVER=file
FILESYSTEM_DISK=local
```

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```

SESSION_DRIVER=file
SESSION_LIFETIME=120

# ===== Redis (nếu có) =====
REDIS_HOST=127.0.0.1
REDIS_PASSWORD=null
REDIS_PORT=6379

# ===== Mail =====
MAIL_MAILER=log
MAIL_HOST=127.0.0.1
MAIL_PORT=1025
MAIL_USERNAME=null
MAIL_PASSWORD=null
MAIL_ENCRYPTION=null
MAIL_FROM_ADDRESS=hello@example.com
MAIL_FROM_NAME="${APP_NAME}"

# ===== Pusher Config =====
PUSHER_APP_ID=your_app_id
PUSHER_APP_KEY=your_app_key
PUSHER_APP_SECRET=your_app_secret
PUSHER_APP_CLUSTER=ap1 # thay cluster đúng (ví dụ ap1, mt1...)

PUSHER_HOST=
PUSHER_PORT=443
PUSHER_SCHEME=https

# ===== Vite Echo Config =====
VITE_APP_NAME="${APP_NAME}"
VITE_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
VITE_PUSHER_HOST="${PUSHER_HOST}"
VITE_PUSHER_PORT="${PUSHER_PORT}"
VITE_PUSHER_SCHEME="${PUSHER_SCHEME}"
VITE_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"

```

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```
# Allow frontend (Vite) to call API
SANCTUM_STATEFUL_DOMAINS=localhost:5173,127.0.0.1:5173
SESSION_DOMAIN=localhost
FRONTEND_URL=http://127.0.0.1:5173
```

Migrate/seed & storage link:

```
php artisan migrate --seed
php artisan storage:link
```

Run API:

```
php artisan serve --host=127.0.0.1 --port=8000
```

3) Frontend (React + Vite)

```
cd ../Developments
npm install
cp .env.example .env
```

Edit frontend/.env:

```
VITE_API_URL=http://127.0.0.1:8000/api
```

Run dev server:

```
npm run dev --
```

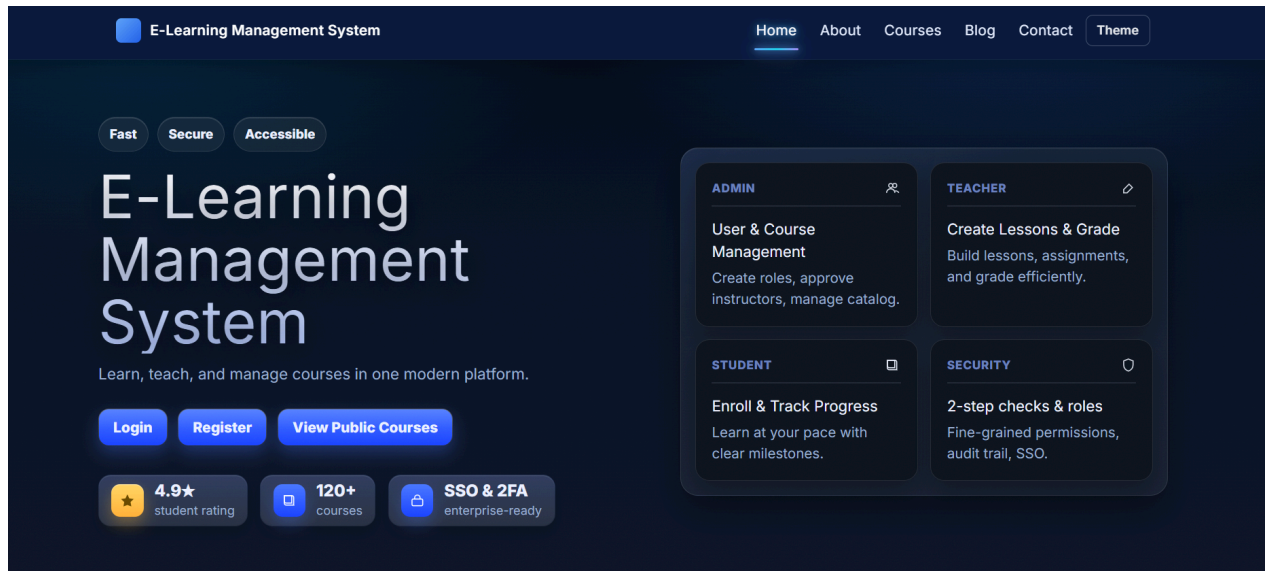
- Frontend: <http://127.0.0.1:5173>
- Backend API: <http://127.0.0.1:8000/api>

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D. Installation Successful

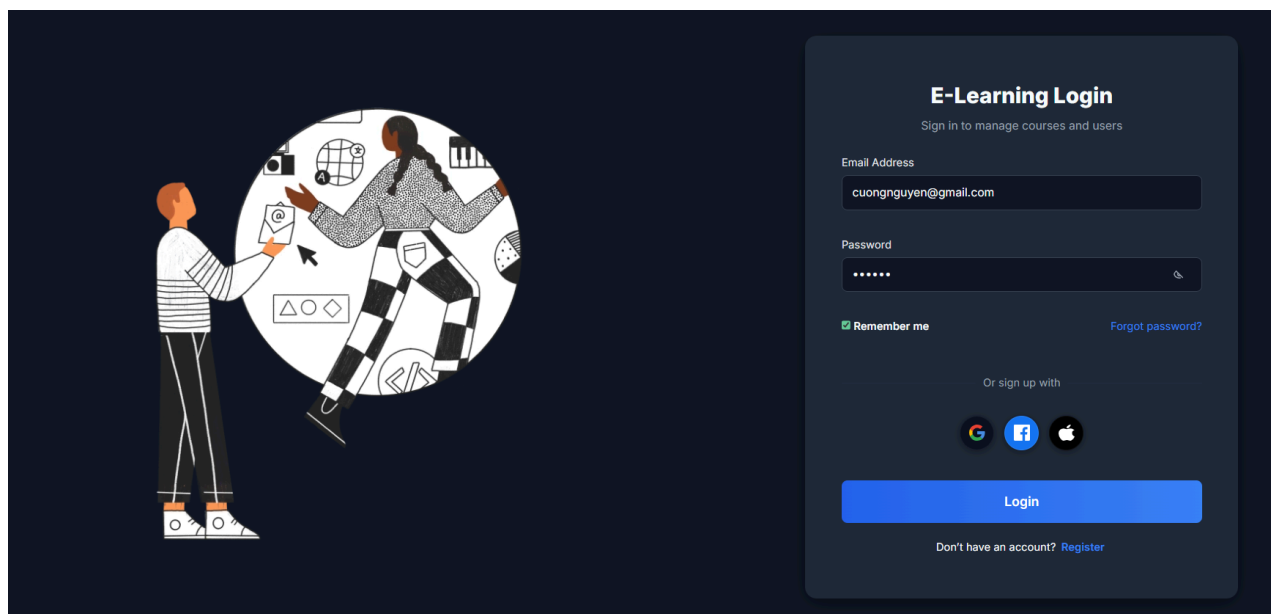
- Access **Frontend**: <http://127.0.0.1> (see E-Learning homepage).

Successful test:



- **Demo login:**

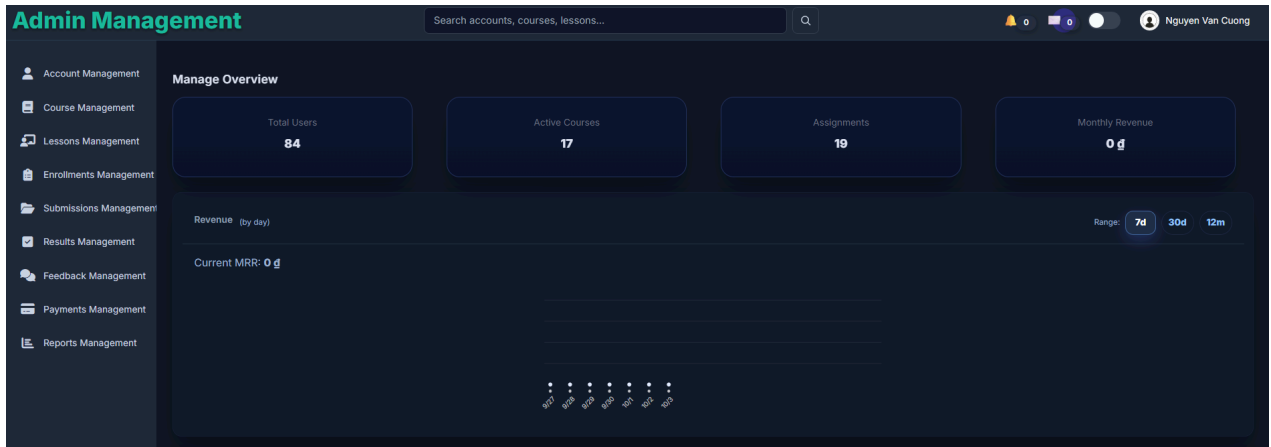
Successful test:



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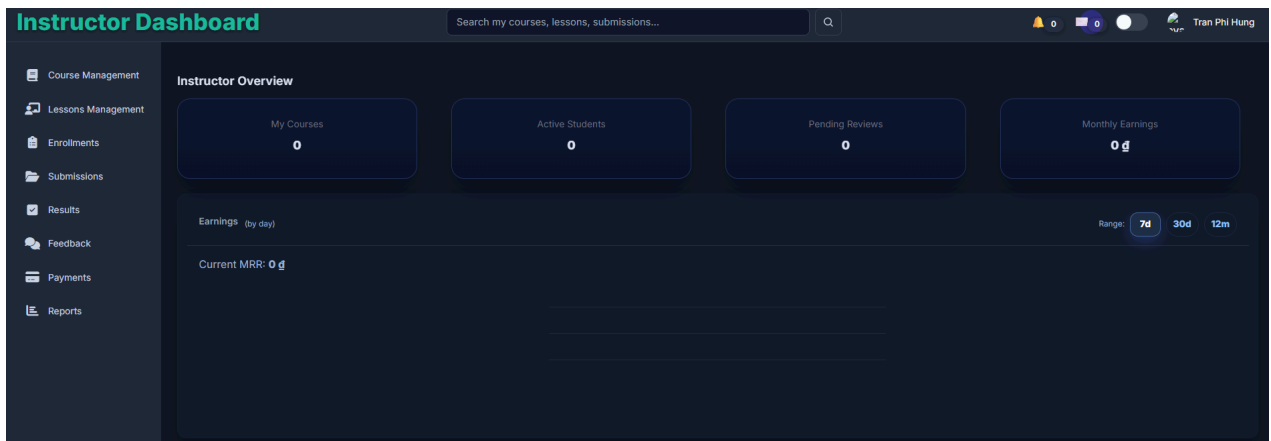
- Admin: cuongnguyen@gmail.com / 123456

Successful test:



- Instructor: hungphitran@gmail.com / 123456

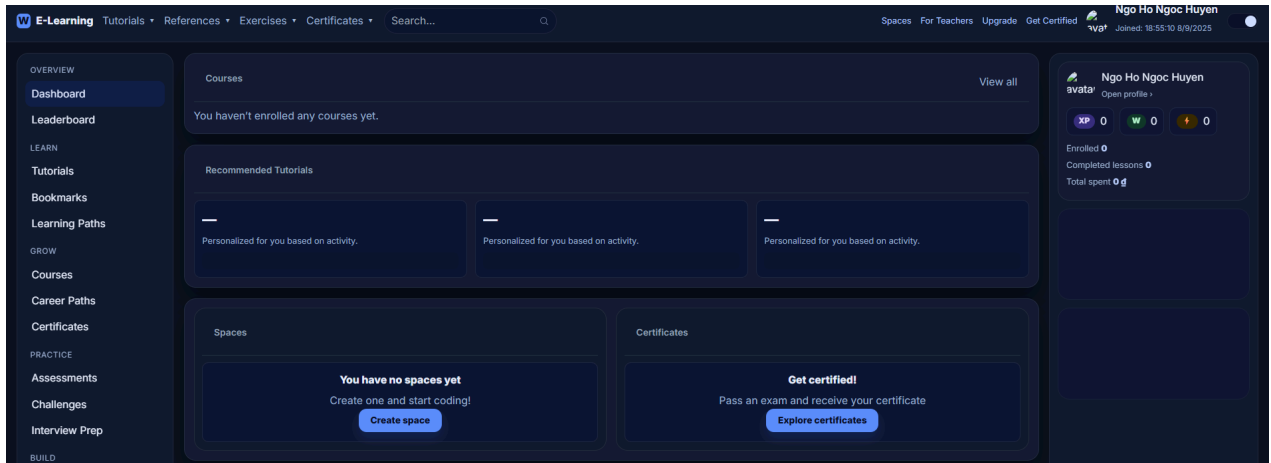
Successful test:



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- Learner: `huyenngo@gmail.com` / 123456

Successful test:



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