



**YOUR SHARING
ECONOMY APP**

**Create your own
Sharing Economy Application**

Presentation

- Esteban Gallardo
- Freelance Programmer
- Specialized in VR/AR, networking apps
- Expert in Unity, C#, Java, PHP and anything to make a project come true
- Aspiring Entrepreneur :)
- Email: esteban@yourvrexperience.com
- Slack: <https://yourvrexperience.slack.com>
- GitHub: <https://github.com/EstebanGameDevelopment>
- Phone: (+34)649626869

3^o Industrial Revolution

- I will keep it short:
 - The third industrial revolution is to understand that nowadays everything is connected in this world.
 - Projects are becoming more and more complex, and they can't be done by single teams but by a network of teams working synchronized.
 - The future workflow will be to get the most from the connections.
- The best reference I can give you is this video. If you really want to participate in a better future you have to see it:
 - <https://www.youtube.com/watch?v=QX3M8Ka9vUA>

1. Download

- Unity SDK
- Import the package YourSharingEconomyApp from Unity Asset Store
- Switch Scripting Runtime Version to:
 - **.NET 4.x Equivalent**
- Import the packages:
 - Facebook SDK package
 - Unity IAP
 - Flatcalendar package

2. XAMPP

- XAMPP install

<https://www.apachefriends.org/download.html>

- Change port to avoid collision (usually Skype)
 - [XAMPP Installation Folder]/apache/conf/httpd.conf.
 - Listen 8080

3. Create Database

- Open PHPMysqlAdmin:
 - <http://localhost:8080/phpmyadmin>
- Create a database called **"yoursharingeconomyapp"** (you can call it later like you want but let's keep it this way in this tutorial)
- Import database from
 - Assets/YourSharingEconomyApp/SERVER/DATABASE

4. PHP

- Copy PHP into the folder:
 - SOURCE:
 - Assets/YourSharingEconomyApp/SERVER/PHP
- TO:
 - c:/xampp/htdocs/yoursharingeconomyapp

5. Basic Server Configuration

- Open configuration file and set up DATABASE and constants:
- c:/xampp/htdocs/yoursharingeconomyapp/
 - ConfigurationYourSharingEconomyApp.php

6. Basic Configuration Client

- Open **ScreenController.cs** and set the constant:
- **public const string URL_BASE_PHP =
"http://localhost:8080/yoursharingeconomyapp/";**

7. Run the App and Register by Email

- Run the application and register a new user.
- PLEASE, USE A PASSWORD YOU CAN REMEMBER, THIS IS FOR TESTING SO, "123" IS OK :)
- For the example there is not a email verification process to ease this tutorial. If you want to enable the email verification process just check the file **ConfigurationYourSharingEconomyApp.php** and set variable:
 - `$ENABLE_EMAIL_SERVER = 1`

8. Create multiple accounts

- We are going to create another accounts. First, go here to clear local data:
- "Tools->Your Sharing Economy Tools->Clear PlayerPrefs"
- Repeat the process to create the another account so we will have two accounts. One will be the provider of services, the other will be the customer

9. Account Switcher

- Open file **YourSharingEconomyAppTools.cs**.
- In this file we are going to write down the email/password we have used before.
- This tool will allow to switch between account fast to be able to develop without problems.
- Let's do a fast test switching between the profiles we have previously created.

10. Create a request for service

- Next, one of our accounts is going to be a customer looking for a service.
- Now we are going to create a request.

11. Provider makes a proposal

- Next, we are going to take the role of the provider of services and make a proposal for the previous job created.
- First, we go to the profile section, we activate that we are a provider of services and we can fill our profile.
- Next, we will search for work and make a proposal

12. Client accepts the proposals

- We go back to the client and accept the proposal of the provider

13. Provider finishes job

- It's up to the provider to finish the job, so we switch to his profile and we post an image with the results

14. Client Validation

- It's time for the customer to verify that the picture belongs to the work done.
- By scoring the work of the provider we acknowledge that the work relationship between provider and customer has been completed.

15. Provider Validation

- Back to the service provider he is also able to provide some feedback about the customer to balance the things.

16. Blockchain

- We will create a Bitcoin wallet which we will use for 2 things:
 - First, make a payment using Bitcoins
 - Second, using the power of the Blockchain to verify the authenticity of the job performed and that the two parts had agreed to the description of that job.
- We are going to use TestNet in order to use the tools that the Blockchain offers without the need to spend real money.

17. Scores for both

- Now the score of both client and service provider has been added to their respective scores.
- We use the Blockchain keys we previously generated to sign the data as a proof of authenticity.
- These scores are in the profiles of both the provider and the customer so the other customer and provider can get a reference of these persons.



Create your Custom solution

Custom Texts

- The whole thing is prepared in order to be able to make few changes and customize your own solution.
- First, let's see the file with all the texts
 - We keep it simple: we just change the title
- Now, let's do some customization of critical images. Copy and paste these images.
 - `_CUSTOMIZE*.*`
 - `Assets\YourSharingEconomyApp\CLIENT\Resources\images`

And... It's done!!

- You have your own sharing economy app!!!



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You have a MVP

- ...Well, of course, it's not finished, but at least you know that you have a template that it's easy to customize
- Thanks to this template you can develop a MVP (Minimal Viable Product) at a really low cost
- You are free to use it and it can help to any community or providers of services who want to create a wider network of connections

TODO in close future

- The next thing I plan to do is that the transaction could be done using the Blockchain with Cryptocurrencies.
 - Right now I've done successful tests with Bitcoin for C# in Unity
 - Another feature to investigate is to use the Blockchain to help with the authentication and trust
- Also right now, I'm looking for new job opportunities where I will help with my expertise

Bonus Tracks

- Bitcoin for Unity
 - Actually implemented for project Your VR Adventures. A project video creators can upload and monetize their 360 videos:
 - <https://www.youtube.com/watch?v=wSwt2hYeAmE>