## Cool Frog Tap 2 Earn Clicker Game

Telegram Mini App + API + Bot



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## What is CoolFrog Tap2Earn?

**CoolFrog Tap2Earn** is an exciting and addictive Telegram mini app clicker game where tapping isn't just fun—it's rewarding! Step into the world of CoolFrog, where every tap brings you closer to earning coins, leveling up, and dominating the leaderboard.

#### Features include:

- **Tap to Earn Coins**: Tap your way to wealth by earning coins with every click. The faster you tap, the more you earn!
- **Buy Boosters**: Supercharge your tapping power with a variety of boosters. Maximize your earnings and dominate the competition.
- **Refer Friends**: Invite your friends to join the fun and get bonus coins for each referral. The more friends you refer, the richer you become!
- **Complete Tasks**: Take on daily tasks and challenges to earn extra coins. Each task completed brings you closer to your next big reward.
- **Upgrade Missions**: Invest in upgrades to earn coins passively, even when you're not tapping. Let your frog work for you around the clock!
- Level Up: Use your coins to level up and unlock new features, bonuses, and more powerful upgrades.
- Leaderboard: Compete against players worldwide to claim your spot at the top. Show everyone who the ultimate CoolFrog is!

Whether you're in it for fun, competition, or just to see your name on the leaderboard, CoolFrog Tap2Earn is the game for you!

#### How to setup Cool Frog game frontend

First let's setup the frontend of the game, this is the telegram mini app that the bot will open.

- 1. Open your project in VS Code or any other IDE
- 2. Navigate to the `coolfrog` folder
- 3. Open the `.env` file
- 4. Set your domains where you will host the api and frontend, and set your telegram bot's url (how to create a telegram bot: <a href="https://core.telegram.org/bots/tutorial">https://core.telegram.org/bots/tutorial</a>)
- 5. Open the terminal while located in the `coolfrog` folder
- 6. Run `npm install`

| s npm install   |
|---|
| npm 👯 deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache |
| more comprehensive and powerful.  |
| npm <mark>WARN</mark> deprecated @humanwhocodes/config-array@0.11.14: Use @eslint/config-array instead              |
| npm WARN deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported                               |
| npm <mark>WARN</mark> deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported                      |
| npm WARN deprecated @humanwhocodes/object-schema@2.0.3: Use @eslint/object-schema instead                           |
|   |
| added 372 packages, and audited 373 packages in 12s   |
|   |
| 78 packages are looking for funding   |
| run `npm fund` for details  |
| fter installation, run `nnm run build`  |

7. After installation, run `npm run build`



8. If you want to run the game locally, you need to run `npm run dev`, otherwise you need to put the contents of the generated `dist` folder on your hosting

### How to setup Cool Frog API

Next let's setup the API of the game, this is where the frontend makes requests to get and save data of the game.

- 1. Open your project in VS Code or any other IDE
- 2. Navigate to the `api` folder
- 3. Open the `.env` file
- 4. Set your database login data (username, password), APP\_URL and APP\_STORAGE\_URL ( should be the domain of your api)
- 5. Open the terminal while located in the `api` folder
- 6. Run `composer install` (you can download composer from here:

#### https://getcomposer.org/)

| <ul> <li>Installing theseer/tokenizer (1.2.3): Extracting archive</li> <li>Installing sebastian/lines-of-code (3.0.1): Extracting archive</li> <li>Installing sebastian/complexity (4.0.1): Extracting archive</li> <li>Installing sebastian/code-unit-reverse-lookup (4.0.1): Extracting archive</li> <li>Installing phpunit/php-code-coverage (11.0.5): Extracting archive</li> <li>Installing phar-io/version (3.2.1): Extracting archive</li> <li>Installing phar-io/manifest (2.0.4): Extracting archive</li> <li>Installing myclabs/deep-copy (1.12.0): Extracting archive</li> <li>Installing number (1.1.2.0): Extracting archive</li> </ul> |      |
|--|------|
| - Installing pipulat/pipulat (11.3.6). Extracting artifive   |      |
| denerating optimized adologi files   |      |
| > Infinitiate (roundation) composer 50: 105: 105: 000 California   |      |
| / upip al cisali package.uiscoveralisi   |      |
| INFO Discovering packages.   |      |
| laravel/breeze   | DONE |
| laravel/sail   | DONE |
| laravel/sanctum  | DONE |
| laravel/tinker [   | DONE |
| nesbot/carbon  | DONE |
| nunomaduro/collision   | DONE |
| nunomaduro/termwind  | DONE |
|  |      |
| 79 packages you are using are looking for funding.   |      |

- 7. Make sure you have a mysql server running on your hosting or local environment
- 8. Run `php artisan migrate` (this will create the database)

| ₽ | bub autisau migrate  |   |  |
|---|--|---|--|
|   | WARN The database 'coolfrog' does not exist on the 'mysql' connection.   |   |  |
| > | Would you like to create it? (yes/no) [yes]<br>yes   |   |  |
|   | INFO Preparing database.   |   |  |
|   | Creating migration table   |   | DONE   |
|   | INFO Running migrations.   |   |  |
|   | 0001_01_01_000000_create_users_table<br>0001_01_0000002_create_table<br>0001_01_010000002_create_jobs_table<br>2024_06_20_1071221_create_personal_access_tokens_table<br>2024_06_21_071221_create_telegram_users_table<br>2024_06_21_071221_create_telegram_users_table<br>2024_06_21_071221_create_tasks_table<br>2024_06_21_07218_create_daily_tasks_table<br>2024_06_21_07218_create_levels_table<br>2024_06_21_07218_create_levels_table | 55.34ms<br>20.88ms<br>54.35ms<br>35.26ms<br>23.27ms<br>12.62ms<br>89.01ms<br>6.81ms | DONE<br>DONE<br>DONE<br>DONE<br>DONE<br>DONE<br>DONE<br>DONE |
|   | 2024 07 03 131414 create mission_types_table<br>2024 07 03 143422 create mission_table<br>2024 07 03 152047 create_mission_levels_table<br>2024 07 03 152457 create_telegram_user_missions_table   | 6.94ms<br>45.73ms<br>42.66ms<br>91.50ms   | DONE<br>DONE<br>DONE<br>DONE                                 |
|   | 2024_07_08_065814_add_image_to_tasks_table<br>2024_07_08_131311_add_requireds_column_to_missions_table<br>2024_07_18_125312_change_from_to_balance_columns_type_in_levels_table<br>2024_07_15_07512_create_referral_tasks_table  | 8.45ms<br>13.35ms<br>46.53ms<br>88.92ms   | DONE<br>DONE<br>DONE<br>DONE                                 |
|   | 2024 07 15 084737 create popups table  | 43.97ms   | DONE   |

9. Run `php artisan db:seed` (this will seed the database with data – levels, missions etc.)

| \$ php artisan db:seed   |                 |
|--|-----------------|
| INFO Seeding database.   |                 |
| Database\Seeders\LevelSeeder       RUNNII         Database\Seeders\LevelSeeder       47 ms DOI | <b>IG</b><br>NE |
| Database\Seeders\DailyTaskSeeder   | ig<br>Ne        |
| Database\Seeders\TaskSeeder       RUNNII         Database\Seeders\TaskSeeder       12 ms DOI   | ig<br>Ne        |
| Database\Seeders\MissionTypeSeeder   | ig<br>Ne        |
| Database\Seeders\MissionSeeder   | <b>IG</b><br>NE |

- 10. Run `php artisan key:generate`
- 11. Run `php artisan storage:link`
- 12. Now your API is ready to go, if you want to run it locally run `php artisan serve`, otherwise you need to put this code on your hosting



### How to setup Cool Frog Telegram bot

Last but not least, let's setup the Telegram bot of the game so we can actually access it through Telegram.

- 1. Open your project in VS Code or any other IDE
- 2. Navigate to the `bot` folder
- 3. Open the `.env` file
- 4. Setup your APP\_URL (this is the domain of the frontend) and Telegram bot token, which you get from Bot Father on Telegram after creating it.
- 5. Open the terminal while located in the `bot` folder
- 6. Run `npm install`

| \$ npm install  |
|---|
| npm WARN deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache  |
| mor <u>e co</u> mprehensive and powerful.   |
| npm WARN deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported                                   |
| npm WARN deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported                                       |
| npm MARN deprecated core-js@2.6.12: core-js@<3.23.3 is no longer maintained and not recommended for usage due to the nu |
| could cause a slowdown up to 100x even if nothing is polyfilled. Some versions have web compatibility issues. Please, u |
| added 228 packages, and audited 229 packages in 6s  |
| 29 packages are looking for funding   |
| run `npm fund` for details  |
|   |
| found 0 vulnerabilities   |
| After installation over hereital  |

7. After installation, run `npm run build`



8. If you want to run the bot locally, you need to run `npm run dev`, otherwise you need to run the index.js file located in the generated `dist` folder on your hosting server (this can be done with pm2: <u>https://pm2.keymetrics.io/</u>)

That is all. Now you should be able to access your bot by sending the `/start` command to your bot and pressing the Play Game button!

### How to run the game locally

Note that you can run the game locally (without bot, just game and api), but if you want it to be launchable through telegram, the game needs to be hosted on domain with SSL (https).

- 1. Setup your API as shown here
- 2. Setup your frontend as shown here
- 3. Next thing is to set the environment variables (in .env file) in your frontend to your local URLs as shown below:



You can leave the VITE\_BOT\_URL empty, since we won't be using the bot locally.

Also please note, that you may have different ports, change them accordingly.

4. After you have set up both frontend and API, you should be able to access it by visiting the frontend URL in your browser.



#### How to add/customize levels, missions and tasks

The customization/adding of levels, missions and tasks is done in the API, because they are saved in the database. So, if you want to change them, please follow these steps:

- 1. Open your project in VS Code or any other IDE
- 2. Navigate to the `api` folder
- Open the `database/seeders` folder, there you will have all the database seeder files
- 4. To add missions, open the `MissionSeeder.php` file, it should look like this:



5. Following the provided example, you can add your own missions and customize their level cost and production per hour.

6. If you want to add levels, open the `LevelSeeder.php` file, it should look like this:



- 7. Following the provided example, you can add your own levels and customize their required balance.
- 8. If you want to add tasks, open the `TaskSeeder.php` file, it should look like this:



- 9. Following the provided example, you can add your tasks and customize their rewarded coin amount.
- 10. The same goes for referral tasks (ReferralTaskSeeder.php), daily tasks (DailyTaskSeeder.php), popups (PopupSeeder.php) and mission types (MissionTypeSeeder.php).