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![Digital Spark

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Intro

This application is leveraging Larastarter template

Application used to incentive sellers to sell more products by rewarding them with points which they can later use to get vouchers from sponsors.

It consists of an admin panel which controls all the data that is present in the mobile application.

Everything is pretty straightforward.

1. Specific implementations are that each entity belongs to a specific company (it has company_id inside its table) and

most use soft deletes. To make it easier for usage, there is global scope `WithinCompany` which is used on the models

which have company_id column. There is also

according trait which adds additional functionality to the model. To make it easier to use, we created WithinCompany abstract class which all models that belongs to

certain company can extend and automatically have those features.

2. Some models also have visibility constrains, these can be: which retailers, sale points or specific users can see

them. There is also global scope, but for easier usage,

there is a trait `HasModelVisibility` which can be used in models that have visibility constrains and everything will

work out of the box for them. Requests for these models will need to be adjusted to include visibility constrains. You can check NewsRequest as an example of this behavior.

3. Another feature that certain models leverage is priority ordering. These models can use `HasPriorityOrdering` trait

which exposes several useful features. These include





changing priority of the model (moving it up or down, there is no feature to a move model certain points up or down the model list) and scope which orders models by their priority. Check out this trait to see all methods/features it has. Detailed documentation can be found at project-specific documentation of Gitbook(mentioned bellow); # Getting started # ## Prerequisites - `PHP >= 8.1` - `Nodejs > 16.0.0` ***(Only needed if you are generating apidoc documentation) *** - `MySQL >= 8.0.0` - `Composer >= 2.0.0` - *You could be using: [laragon](https://laragon.org/) (Windows only), [WAMP] (https://www.wampserver.com/en/) , [XAMPP](https://www.apachefriends.org/index.html), [LAMP](https://bitnami.com/stack/lamp/installer)* ## Git branches Y - `master` - This is the production branch, and you **should** only push changes to this branch when they have been fully tested and are ready for the production environment or end users. - `staging` - This branch is used as a staging area or playground, where you can experiment and identify any bugs in your latest releases before they hit production. It is directly connected to our testing servers, so it is important to ensure that any changes pushed to this branch have been properly tested by developer beforehand. - `develop` - This is the development branch, and it is where you write and develop the application code. All active work should be done in this branch, and any changes that are ready for production(or testing) should be merged into either or both of the branches listed above. ## Installation 🦃 Please check the official Laravel installation guide for requirements before start. [Official Documentation](https://laravel.com/docs/master/installation) Clone the repository git clone git@bitbucket.org:itc-solution/digital-spark-backend.git // or use HTTPS if you are not using SSH git clone https://{YOUR_USERNAME}@bitbucket.org/itc-solution/digitalspark-backend.git



cd digital-spark-backend

Switch to the repo folder



```
Install all the dependencies using composer
    composer install
Copy the example env file and make any necessary changes to the .env file
    cp env.example .env
Generate a new application key
    php artisan key:generate
Generate symlink to public storage folder
    php artisan storage:link
Run the database migrations & seeders (**Set the database connection in
.env before migrating**)
    php artisan migrate:fresh --seed
Add any necessary assets into storage
> They are inside shared Google Drive located
at [Software/ITC Projects/Digital Spark/Backend
files | (https://drive.google.com/drive/u/0/folders/1sHDJOnkjDJuK2Odihfv6AR8qR
9RNEGan)
Start the local development server
    php artisan serve
You can now access the server at http://127.0.0.1:8000
**Make sure you set the correct database connection information before
running the
migrations**
> Check [environment variables section](#markdown-header-environment-
variables) for more information.
## Background processes overview
> **Emails**
> All emails are leveraging background processes. They are being sent using
queue a worker by dispaching jobs.
> Server should have `supervisor` installed and configured to run `php
artisan queue:work command.
> **Note: ** Using `queue: listen` is preferred in development phase as it
will detect changes and restart itself
> unlike `queue:work` which works with cached state and is generally more
optimized for production but has downsides
> such
> as the need to manually restart the process after each change to your job
logic.
> **Sanctum prune tokens**
```





```
> Laravel scheduler is used to prune expired sanctum tokens once a day at
00:00.
> Cron job should be set to run every day at 00:00 executing `php artisan
schedule:run command.
> **Note: ** Be sure to set correct **server** timezone in `.env` file using
`SCHEDULER TIMEZONE` variable. This will
> ensure that the scheduled tasks are executed at the intended times based
on the timezone configured for the server.
> **Clearing of temp Excel files**
> Laravel scheduler is used to clear temp Excel files older than 3 hours
once a day at 00:00.
>
> Cron job should be set to run every day at 00:00 executing `php artisan
schedule:run command.
> **Note:** Be sure to set correct **server** timezone in `.env` file using
`SCHEDULER_TIMEZONE` variable.This will
> ensure that the scheduled tasks are executed at the intended times based
on the timezone configured for the server.
## API Specification
This application adheres to the api specifications set by the
[apidoc](https://apidocjs.com).
> [Full API Spec (Check on already published
app)](https://api.spark.itcentar.rs/apidoc/)
> [Full API Spec (Check locally)](http://127.0.0.1:8000/apidoc/)
More information regarding the *apidoc* project can be found here
https://apidocjs.com
-----
# Code overview
It is **essential** to read and **understand** the working dynamics of the
Laravel template(aka **Larastarter**) used in
this project before starting to work on it. This will provide a better
overall understanding of the project.
Additionally, it is crucial to be familiar with Laravel and PHP code
guidelines in general.
> [General backend coding standards
documentation](https://gitbook.itcentar.rs/backend/coding-standards)
> [Larastarter
documentation](https://qitbook.itcentar.rs/backend/larastarter)
> [More detailed project specific
```

documentation](https://gitbook.itcentar.rs/backend/digital-spark)





Dependencies 🖶

- List your dependencies here
- [intervention/image](https://image.intervention.io/v2) Used for image optimization. Reducing their quality and

therefore space they take on the server.

- [kreait/laravel-firebase] (https://github.com/kreait/laravel-firebase) Used for Firebase integration. Sending push

notifications is main feature that is used.

Only used for features regarding mobile application(App).

- [maatwebsite/excel](https://docs.laravel-excel.com/3.1/getting-started/)
- Used for Excel import/export

Folders

- // Remove any unused files/directories from the list below.
- // Add any new files/directories to the list below.

// Remove these comments

- `app/helpers.php` Contains all custom application helper functions
- `app/Actions/Admin` Contains all application actions specific to an admin panel
- `app/Actions/App` Contains all application actions specific to mobile application panel
- `app/Actions/Shared` Contains all application actions which are generic, in other words can be used in a

non-specific

situation

- `app/Casts` Contains all casts used in Eloquent models
- `app/Classes` Contains all custom classes
- `app/Enums` Contains all enumerations
- `app/Contract` Contains all interfaces(contracts) used by the application.
- `app/Exceptions` Contains custom exception classes
- `app/Exports` Contains all export classes.
- `app/Exports/Abstracts` Contains abstract classes which are used by export classes.
- `app/Http/Controllers` Contains all controllers relevant to web
- `app/Http/Controllers/Admin` Contains all controllers specific to admin panel
- app/Http/Controllers/App` Contains all controllers specific to mobile application
- `app/Http/Middleware` Contains all application middlewares
- `app/Http/Middleware/App` Contains all mobile application specific middlewares.
- `app/Http/Requests/Admin` Contains all application requests specific to admin panel
- `app/Http/Requests/App` Contains all application requests specific to mobile application
- `app/Http/Requests/Shared` Contains all application requests which are generic, in other words can be used in
 - a non-specific situation
- `app/Http/Resources` Contains all resources
- `app/Http/Resources/Admin` Contains all application resources specific to admin panel
- `app/Http/Resources/App` Contains all application resources specific to mobile application
- `app/Imports` Contains all import classes.





- `app/Imports/Abstracts` Contains abstract classes which are used by import classes.
- app/Mail Contains all mailables used by the application
- `app/Models` Contains all models
- `app/Models/Builders` Contains all custom model eloquent builders
- `app/Models/Abstracts` Contains all abstract classes which are used for specific cases for specific models.
- `app/Models/Scopes` Contains all model scopes used in different models.- `app/Notifications` Contains default Laravel reset password notification overridden in such a way to make it queueable.
- `app/Traits` Contains all custom traits used by application. Most of these are template(Larastarter) based.
- `app/Traits/Excel` Contains all custom traits used for working with Laravel Excel package.
- `app/Traits/FormRequest` Contains all custom traits used in Form Requests.
- `config` Contains all application configuration files. There are custom configuration files such as `validation.php`
- `database` Contains all application database files
- `lang` Contains all application translation files
- `resources` Contains all frontend files for application. Here only used for email(mailables) templates
- `routes` Contains all the route files. Here
- only `app.php (Used for mobile application)`, `admin.php (Used for admin panel)
 - and `development.php (Development routes) ` are used.
- `routes/apidoc` All Apidoc definitions are stored here. They are split in two directories, one for mobile
 - application routes(app) and the other for admin panel(admin).
- ## Environment variables
- `.env` Environment variables can be set in this file
- **Here is a list of application specific environment variables:**

Name	**Value**	**Example**	
Description			
	-		
·	· 		•
AKTON_ENDPOINT	/	https://aktonendpoint.net:8002/api	
Endpoint used to	contact Akton	service.	
AKTON_USERNAME	/	username	Akton
username			
AKTON_PASSWORD	/	password	Akton
password			
AKTON_ANI	SMSexpress	SMSexpress	Akton
ANI, usually SMS	express		-

Testing API

Run the laravel development server

php artisan serve

The api for admin panel can be accessed at

http://127.0.0.1:8000/admin/*





### Request headers (Admin	n Panel)					
Required **Description** 	**Key** 		 -			
Yes	Content-Type	application/json				
Yes	Accept	application/json	1			
For most of the routes	Authorization	Bearer {TOKEN}	1			
### Request headers (Mobile application)						
Required **Description**	**Key**	**Value**				
 Yes 	Content-Type	application	on/json			
 Yes 	Accept	application	on/json			
For most of the routes	Authorization	Bearer {Te	OKEN}			
Yes (Always) X-Company-Identifier 00000000-0000-0000-0000-0000-00000000						
# Authentication						
This application uses Laravel Sanctum to handle authentication. The token is passed with each request using the `Authorization` header with `Bearer` scheme. The Laravel Sanctum middleware handles the validation and authentication of the token. Please check the following sources to learn more about Sanctum.						
- https://laravel.com/docs	s/master/sanctum					
# Cross-Origin Resource S	haring (CORS)					
All applications have CORS enabled by default on all API endpoints. The default configuration allows requests from `http://localhost:3000` and `http://localhost:4200` to help speed up your frontend testing. The CORS allowed origins can be changed by setting them in the config file, `config/cors.php`. Please check the following sources to						





learn more about CORS.

- https://developer.mozilla.org/en-US/docs/Web/HTTP/Access_control_CORS
- https://en.wikipedia.org/wiki/Cross-origin_resource_sharing
- https://www.w3.org/TR/cors

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