

***V. Kucher***

*Research supervisor: O. M. Kryvonos,*

*PhD, Associate Professor,*

*Zhytomyr Ivan Franko State University*

*Language tutor: A.V. Kuznyetsova*

*PhD, Associate Professor*

## **CREATION OF E-PETITION SERVICE USING THE DJANGO FRAMEWORK**

In the fast changing world of informational technologies it is very important to meet the requirements of the day and introduce new, more effective and up-to date means to solve task set. With development and growth of Internet new approaches and mechanisms to electronic participation of the citizens in the life of their country, city, office, and university appear. One of such approaches is electronic petitions mechanism.

E-petitions – are collective claims of students and employers of the university to corresponding structures of the university on the issues of the improvement of infrastructure, services providing, organization of leisure and other issues connected with the certain university [1].

Such project needs modern and powerful toolkit to work out web-applications with rational usage of human and time resources. One of such instruments is Django web-framework. Django is a high level, opensource framework of a new generation for the development of applications in the programming language Python [2].

Django`s main advantages are:

**Object-relational mapping** – is programming technology that connects the data base with concepts of Object-oriented programming languages and that provides API for work with data base. ORM affords creation, updating, getting and deleting objects.

**Automatic construction interface for administrating.** After working out of new project Django automatically creates it for models administrating. In the interface given, objects can be created, updated, changed or deleted according to the models described.

**Extended templates system with tags and inherits.** Template in Django is usually used to create HTML. Markers and simple logical constructions (template tags) that form document view can be found in the template. Template pre-processor supports values setting, logical constructions, filters directly into HTML template.

**Detailed documentation.** Django`s official site includes detailed documentation of the whole framework. For convenience, documentation is divided into parts, corresponding to the main ones. There is an alphabet indicator and navigation on modules.

**Great world community of developers.** Thousands of developers over the world work out projects in Django. That is why if there are any difficulties in some issues understanding, it`s easy to find answers through thematic blogs, forums, Q&A services, etc.

Petition must gain not less than 100 signatures during a month for its further consideration by corresponding people. Electronic petitions consider issues which are of university authorities concern. When the petition attains the required number of signatures, the responsible person must review it and provide a response which will be published on the website.

The mechanism of e-petition can improve students` and teachers` life and work in the university in the future.

## References

1. Електронна петиція в Україні [Electronic resource] Access mode: [https://uk.wikipedia.org/wiki/Електронна\\_петиція\\_в\\_Україні](https://uk.wikipedia.org/wiki/Електронна_петиція_в_Україні).
2. Django [Electronic resource] Access mode: <https://uk.wikipedia.org/wiki/Django>