# Ministry of Science and Higher Education of the Republic of Kazakhstan Korkyt Ata Kyzylorda University Institute of Artificial Intelligence

### Approved

Chairman of the academic quality Committee of the Institute of Artificial Intelligence

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Artificial Intelligence 025 y.

**PLAN** 

for the "Aquila Backend" Club for the 2025-2026 academic year

#### Club Goals and Objectives

#### Goal:

To develop students' professional skills in backend development, gain practical experience through real projects, and cultivate a culture of teamwork.

#### Objectives:

- 1. Teach the fundamentals of PHP and MySQL.
- 2. Master the principles of Object-Oriented Programming (OOP).
- 3. Learn to work with frameworks, particularly Laravel.
- 4. Develop skills in API integration and web service interaction.
- 5. Gain experience through teamwork on real projects.
- 6. Prepare for hackathons and final project defense.

#### Relevance of the Student Club

Today, the demand for backend developers in the field of information technology is increasing rapidly. The stability and security of modern web applications and digital services largely depend on the quality of the server side. Therefore, mastering server-side technologies such as PHP, MySQL, and Laravel is a key prerequisite for being competitive in the job market. The "Aquila Backend" club provides students not only with theoretical knowledge but also with the opportunity to gain hands-on experience through real projects. The club's activities aim to develop teamwork culture, creative thinking, and software design skills. As a result, students successfully defend their projects and become job-ready professionals.

# "Aquila Backend" Club PLAN

## for the 2025–2026 Academic Year

S/n	Activity	Implementation Period	Responsible Person	Venue	Completion Mark
1.	In the first month of the academic year, students are introduced to the basics of PHP. Topics include variables, arrays, loops, and logical operators. Participants learn syntax through solving simple problems and writing small scripts. By the end of the month, they create a miniproject such as a "Personal Diary" or "Online Calculator."	September	Ilyas Abdikadyr	Institute of AI	
2.	This month focuses on working with MySQL databases. Students learn to create databases, manage tables, and execute SQL queries. They study how to connect MySQL to PHP projects using PDO and MySQLi libraries. The month concludes with a small web project called "User Database."	October	Ilyas Abdikadyr	Institute of AI	
3.	In November, students study Object-Oriented Programming (OOP) in PHP. Topics include classes, objects, inheritance, encapsulation, and polymorphism. They learn to organize code efficiently. During the month, participants create a "Blog System" using OOP principles.	November	Ilyas Abdikadyr	Institute of AI	
4.	This month is devoted to frontend basics. Students learn to build and style web pages using HTML and CSS, and are introduced to JavaScript to add interactivity. By the end of the month, each student creates their own portfolio website.	December	Ilyas Abdikadyr	Institute of AI	
5.	January focuses on learning the MVC (Model-View-	January	Ilyas Abdikadyr	Institute of AI	

	documentation are conducted. At the end of the month, projects are presented and the best teams are awarded. This phase is called "Triumphal Entry into Rome" — marking the conclusion of the club's yearly work.		*		
11.	During the summer months, students combine rest with personal development.  Members are encouraged to take part in freelance projects, contribute to opensource, or develop their own ideas. Future directions for the next academic year are discussed.	July	Ilyas Abdikadyr	Institute of AI	¥

Director of the Institute of Artificial Intelligence: Club Leader:

N. S. Kulmurzaev

I. K. Abdykadyr