SE 216 – SOFTWARE PROJECT MANAGEMENT
PROJECT NEEDS DOCUMENT

PROJECT NAME: UniLearn

GROUP NUMBER and MEMBERS: Group – 1 / Mehmet Şakir Şeker, Demirkan Yıldız, Sarp Demirtaş, Sertan Unal, Melik Fırat Gültekin, Cavit Kaya

#	SOFTWARE NEEDS	DESCRIPTION
1	Integrated Development Environment (IDE)	Choose an IDE that supports the programming languages you are using. Examples include Visual Studio, IntelliJ IDEA, PyCharm, and Eclipse.
2	Version Control System	Git is the most popular version control system. GitHub, GitLab, or Bitbucket can be used for repository hosting and collaborative work.
3	Collaboration and Communication Tools	Slack, Microsoft Teams, or Discord facilitate team communication and collaboration.
4	Unit Testing Frameworks	Tools like JUnit (Java), pytest (Python), or Jest (JavaScript) are essential for unit testing.
5	Database Management Systems	Depending on the project, you might need MySQL, PostgreSQL, MongoDB, or another database system.
6	Documentation Tools	Tools like Confluence, Notion, or Google Docs help maintain project documentation.
7	Design Tools	Sketch or Adobe XD for UI/UX design and prototyping.

#	HARDWARE NEEDS	DESCRIPTION
1.	Memory	Samsung 970 EVO Plus 1TB NVMe M.2 SSD. Features: 3500MB/s read speed, 3300MB/s write speed. Each member will need high capacity and fast storage units. During the software development and testing phases of the platform, memory capacity and speed directly affect the stability and performance of applications and systems.
2.	Processor	AMD Ryzen 7 5800X 8-Core 16-Thread AM4 Processor. Features: 4.7GHz Turbo speed, 105W thermal design power. Each member will need a high-performance and multi-threaded processor. The processor plays a critical role on computers where developers perform tasks such as writing, compiling and debugging code.

3.	Graphics Card	NVIDIA GeForce RTX 3060 Ti. Features: 8GB GDDR6 memory, 4864 CUDA cores. Each team member will need a mid-range graphics card to accelerate graphics-intensive workloads. It is important that the graphics card to be used in the education platform project suits the needs of the project and meets the visual processing requirements. A high-performance graphics card can help make the platform visually impressive and user-friendly.
4.	Monitor	HP 24mh FHD Monitor. Features: 23.8-inch IPS display, 1080p resolution, HDMI and DisplayPort connections, built-in speakers, VESA mount. Every team member will need this type of monitor for optimal viewing. It is important that the monitors to be used in the education platform project comply with the requirements of the project and be of sufficient size and quality to ensure that users have a comfortable experience.
5.	Input Devices	Logitech MX Master 3 Wireless Mouse..Logitech K780 Multi-Device Wireless Keyboard.Each member will need input devices such as a mouse, keyboard and touchpad.

#	SUPPORT NEEDS	DESCRIPTION
1	Technical support for users	We need group of people that can help users most of the time when they need help, for this reason we can get support from experienced software engineers that should have good communication skills.
2	Update and Maintenance Support	Ensuring regular updates and maintenance of the software, including applying security patches, performance improvements, and distributing new versions of the software.
3	Technical support for development team	Getting assistance with technical issues encountered during software development, such as debugging, coding assistance, guidance on system requirements, or troubleshooting platform-related issues from external software experts group.
4	Database Management	We need to get support for managing the system's database 7/24 for any kind of intervention to exceptions.
5	Tool learning sources	The development team can take free-online courses for how to use software tools properly, and can access important documentations about tools that we have specified for our project.