# CS 255 Module Two Assignment – Elliot Putnam

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| User Authentication | It secures user data |  |
| Communication Feature | Gives collaborative ability |  |
| Grading System | Needed for grades |  |
| Progress Tracker | Gives ability to track student progress |  |
| Helpdesk / chatbot | Technical support to students |  |
| Course management | Allows students and teachers to take part in an organized curriculum. |  |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Scalability | Needs to handle large traffic demands |  |
| User Experience | A user friendly UI makes learning less frustrating |  |
| Privacy | Securing sensitive data |  |
| Performance | Students should not experience long load times or lagging apps |  |
| Accessibility | Program must reach most/all students on any device |  |
| Reliability | Redundancy and strong backup mechanisms to prevent downtime |  |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| User connection strength | Users should have enough connection to provide adequate bandwidth for the server to parse information |  |
| Basic technical proficiency | Users should understand the basic system controls for their device of study. |  |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Online Access | The system needs to be connected online to provide the entire service as advertised |  |
| Off Site dependencies | Cloud servers for redundancy are required and not under control of YOUser University |  |