**1. Deviations from PRJ566**

These are the areas where there were differences or deviations from the originally proposed requirements in PRJ566 based on User Stories we have created on GitHub and SRS:

**User Management:**

* **PRJ566 Proposed:** Email verification (SH) and guest access (NH) were optional.
* **Current Implementation:**
  + Email verification was implemented (Sprint 2).
  + Guest access was not implemented (as per the user stories).
* **Deviation:** Email verification upgraded to MH and implemented; guest access deprioritized.

**Course Management:**

* **PRJ566 Proposed:** Course templates (SH) and customizable certificates (NH).
* **Current Implementation:**
  + Course templates were not implemented.
  + Certificates were implemented but not customizable.
* **Deviation:** Customizable certificates deprioritized, and course templates remained pending.

**Content Delivery:**

* **PRJ566 Proposed:** Adaptive streaming (MH), subtitles and translations (NH).
* **Current Implementation:**
  + Adaptive streaming was not mentioned in user stories.
  + Subtitles and translations were not implemented.
* **Deviation:** Adaptive streaming skipped; subtitles and translations deprioritized.

**Progress Tracking:**

* **PRJ566 Proposed:** Progress tracking (MH), progress reports (SH), and analytics dashboard (MH).
* **Current Implementation:**
  + Progress tracking and analytics dashboard were implemented.
  + Progress reports were not mentioned in user stories.
* **Deviation:** Progress reports deprioritized.

**Communication:**

* **PRJ566 Proposed:** Discussion forums (SH).
* **Current Implementation:** Discussion forums were not implemented.
* **Deviation:** Communication features deprioritized.

**Notifications:**

* **PRJ566 Proposed:** Custom notifications (MH), in-app notifications (NH).
* **Current Implementation:** Only email notifications were mentioned.
* **Deviation:** Advanced notification types (in-app, SMS, push) skipped.

**Automated Quiz Handling:**

* **PRJ566 Proposed:** Randomized questions (SH), hints and feedback (NH).
* **Current Implementation:** Only automated quiz grading (MH) was implemented.
* **Deviation:** Advanced quiz handling features deprioritized.

**Integration:**

* **PRJ566 Proposed:** Social media sharing (NH) and LMS integration (SH).
* **Current Implementation:** These were not implemented.
* **Deviation:** Integration features skipped.

**Gamification:**

* **PRJ566 Proposed:** Gamification elements such as leaderboards (NH) and badges (NH).
* **Current Implementation:** Gamification was not implemented.
* **Deviation:** Gamification skipped entirely.

**General Non-Functional Requirements (NFRs):**

* **Performance and Usability:** Maintainability, scalability, and response time requirements were mostly met.
* **Accessibility (SH):** No explicit mention in user stories.
* **Deviation:** Accessibility deprioritized.

**2. Updated Requirements (Implemented this Semester)**

**User Management:**

* **Added:** Secure login process with Auth0 (Sprint 2).
* **Upgraded:** Email verification was upgraded to MH and implemented.

**Course Management:**

* **Updated:** Certification feature added (view, download, and status tracking).
* **Upgraded:** Feedback system fully implemented (submit, edit, and retrieve feedback).

**Content Delivery:**

* **Enhanced:** Content display was structured with navigation.

**Progress Tracking:**

* **Added:** Automated certificate issuance integrated with progress tracking.

**Communication:**

* **Updated:** Communication shifted focus to feedback (no discussion forums implemented).

**Notifications:**

* **Added:** Custom notification settings implemented for email.

**Automated Quiz Handling:**

* **Updated:** Basic quiz handling (grading and timed quizzes) implemented; advanced features skipped.

**Integration:**

* **Updated:** Basic APIs implemented for LMS-like features but no third-party integrations.

**3. List of Changes in Requirements**

**Changes in Prioritization:**

* Email verification moved from SH to MH.
* Custom notifications moved from SH to MH.
* Adaptive streaming deprioritized.
* Gamification deprioritized.

**Added Features:**

* Certification handling (view, download, status tracking).
* Feedback system (submit, edit, retrieve).
* Admin content management (course structure, navigation).

**Skipped Features:**

* Subtitles and translations for videos.
* Social media integration.
* Discussion forums.
* Gamification elements.

**4. Detailed List of Updated Requirements**

**Functional Requirements:**

1. **User Management:**
   * Secure login process with Auth0.
   * Session management upgrades.
2. **Course Management:**
   * Certification management added (status, view, download).
   * Feedback system enhancements.
3. **Content Delivery:**
   * Structured course content with navigation.
4. **Progress Tracking:**
   * Automated certificate issuance.
5. **Notifications:**
   * Custom email notification preferences.
6. **APIs:**
   * Multiple APIs implemented for progress tracking, feedback, and test management.

**Non-Functional Requirements:**

1. **Performance:** Met response time and system availability goals.
2. **Security:** Implemented encryption and secure authentication mechanisms.
3. **Maintainability:** Modular API and schema design achieved.