Change Management
Project: Learning Management System
Date: 20 May 2022

Change Request #: 1

1. Change Information	
Requester(s):	Shamsa Hafeez, Fatima Nasir, Muhammad Qasim
Type of Change:	Software Interface
Change:	Flask web framework shall be used along with MySQL for database management.
Description:	The Software Requirements Specification 1.0 section 3.3 pointed out that the Learning Management System would use REST API using Django REST interface. This specification shall not be implemented. The web application shall be made on the Flask web framework written in Python. Moreover, MySQL shall be used for creating, maintaining and using the database made for the Learning Management System project.
Justification:	The given resources allowed access to only a specific set of developers with limited experience. Given the time constraints provided in each sprint and the experience of developers, using Django REST API was not feasible and the team had to change to Flask with MySQL database at the backend.
Areas Impacted Due to Change:	● Development of the complete project
Success criteria for change completion:	Successful implementation of the requirements and design as per the Software Requirements Specification 1.0 for Learning Management System within the time constraints set by Project Management.
Requestor Signature	*Shamsa Fatima Qasim*
Project Manager:	Fahad Javed fahad.javed@sse.habib.edu.pk

2. Change Assessment and Review	
Change Complexity Level:	☑ ~~Level 1~~ ☐ Level 2 ☐ Level 3 ☐ Level 4
Change Type:	☐ Normal ☑ ~~Emergency~~
Estimated Date/Time for change completion:	1 day
Business Risk, Systems/Services Impacted:	Since the requirement of the change was identified prior to the beginning of the development process, no service or requirements shall be impacted by the change.
Implementation Plan:	The entire software shall be made on Flask framework with MySQL database.
Testing Plan:	The entire software shall be made on Flask framework with MySQL database. All the requirements shall be tested on this the software developed on Flask framework only.

3. Change Request Approval

Groups dependent of this change:	None
Approval of groups dependent on this change:	N/A
Client Approval:	*(To be signed by Sir Fahad)*
Date Approved:	20 May 2022

4. Change Implementation and Close

Change Completed:	☑ ~~Yes~~ ☐ No If No, why?
Documentation Updated:	☑ ~~Yes~~ **Location:** **https://docs.google.com/document/d/1w8id2DelwE6QnTRvKwNcF9FkqHfaV1Yb/edit?usp=sharing&ouid=103657862110766283110&rtpof=true&sd=true** ☐ No If No, why?

Team Members:
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Software Engineering - L2
Project: Learning Management System
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Change Request #: 2

1. Change Information	
Requester(s):	Shamsa Hafeez, Fatima Nasir, Muhammad Qasim
Type of Change:	Design (Attributes of Class)
Change:	The attributes of "teacher" class shall be "Email" and "Pass" only.
Description:	The Epic "Attendance Marking - Teacher View" included "TeacherID", "Name" and "Password" as attributes of the "Teacher" class. However, as per the proposed change request # 2, the attributes of the teacher class shall be "Email" and "Pass" only.
Justification:	Sprint 2 imposed a requirement of integration of this project with at least one other project developed by another team. This integration demanded alignment of data format. The teacher shall, therefore, log in using her email ID and password.
Areas Impacted Due to Change:	● Log in and Sign up credentials used by teacher
Success criteria for change completion:	Successful completion of the change shall result in the teacher being able to Log in and Sign up using Email and Pass only. The system shall also smoothly integrate with team "Muawin" for verification of credentials before letting the teacher access the Learning Management System.
Requestor Signature	*Shamsa Fatima Qasim*
Project Manager:	**Fahad Javed** **fahad.javed@sse.habib.edu.pk**

2. Change Assessment and Review	
Change Complexity Level:	☑ ~~Level 1~~ ☐ Level 2 ☐ Level 3 ☐ Level 4
Change Type:	☑ ~~Normal~~ ☐ Emergency
Estimated Date/Time for change completion:	1 day
Business Risk, Systems/Services Impacted:	The software shall use teacher's data provided by team "Muawin".
Implementation Plan:	The implementation shall be carried out by using the python module "request". The software shall GET the data deployed by team "Muawin" by using the URL shared by the team in order to share relevant data.
Testing Plan:	● The software shall let the teacher log in if the credentials (email ID and password) match with the ones present in the data deployed by team "Muawin". ● The system shall not let the teacher log in if atleast one of the two credentials do not match with the ones present in the data deployed by team "Muawin".

3. Change Request Approval	
Groups dependent of this change:	Muawin
Approval of groups dependent on this change:	Yes
Client Approval:	*(To be signed by Sir Fahad)*
Date Approved:	20 May 2022

4. Change Implementation and Close	
Change Completed:	☑ ~~Yes~~ ☐ No If No, why?
Documentation Updated:	☑ ~~Yes~~ **Location:** **https://shamsa.atlassian.net/browse/LMS-23?atlOrigin=eyJpIjoiZTNjODMwN2ZiYzhlNDRjM 2IzMDZhY2M0ZTc0Zjk2NWYiLCJwIjoiaiJ9** ☐ No If No, why?

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Software Management Timeline

Epic	APR	APR	APR	MAY	MAY	MAY
	T12 W13 T14 F15 S16 S17	M18 T19 W20 T21 F22 S23 S24	M25 T26 W27 T28 F29 S30 S1	M2 T3 W4 T5 F6 S7 S8	M9 T10 W11 T12 F13 S14 S15	M16 T17 W18 T19 F20 S21
		LMS Sprint 1		LMS Sprint 2		
› ⚡ LMS-50 Authentication and Landing Page	██					
› ⚡ LMS-10 Attendance Marking - Teacher View	█████████████████ 🔗					
› ⚡ LMS-25 Attendance View- Parents View						
› ⚡ LMS-28 Attendance View - Students View						
› ⚡ LMS-29 Record Grades - Teacher View					████████	
› ⚡ LMS-30 View Grades - Parents View						
› ⚡ LMS-31 View Grades - Student View						
⚡ LMS-32 Create Feedback Report - Teacher View						
› ⚡ LMS-33 View Feedback Report - Parent View						
› ⚡ LMS-37 Integration		█████████████				
› ⚡ LMS-38 Testing	██					