

Iteration 0

Software Engineering

Submitted To:

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Submitted By:

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Project Title: Onestop Degree Issuance Centre

Problem Statement

The Problem of:	manual and paper-based degree issuance
Effects:	the students and administration of FAST Islamabad
The impact of which is:	hindrances in timely graduation of students, inaccuracies in academic records and, operational inefficiencies
A successful solution would be:	a comprehensive system that facilitates the processing and issuance of degrees for undergraduate and graduate programs. The students will be able to submit degree issuance queries and complaints while remaining updated on the progress of their requests. Admins would then process these queries and provide feedback from relevant departments along with any approved documents. These documents include degrees and transcripts.

List of Envisioned Features:

Roles and Tasks:

- 1. Students:
 - Submit Degree Issuance Form
 - o Preview Forms before Submission
 - o Retain Copy of Submitted Forms
 - Submit Complaint Form:
 - Regarding errors in academic documents.
 - Track Activity:
 - o Status of requests (pending, processing, delivered).
 - o Receive Notifications of Updates in status
 - Receive Degree:
 - Provide Digital Copy
 - o Notify Student to receive Physical Copy

2. FYP Department:

- Student Notification for Degree Issuance:
 - Notify students of updates in the processing of their forms
- Provide Decision:
 - Allow FYP Department to:

- Accept
- Reject
- Raise Objections
- Provide Detailed Comments
- Track Processing Time:
 - Record Processing Start Time
 - Record Processing End Time
 - o Summarize time taken by the committee to process each request.

3. Finance Department:

- Student Notification for Degree Issuance
 - Notify students of updates in the processing of their forms
- Verify All Payments Mad
 - All Outstanding Fees
 - Degree Issuance Fees
- Provide Decision
 - Allow Finance Department to:
 - Accept
 - Reject
 - Raise Objections
 - Provide Detailed Comments

4. One Stop Admin:

- Receive Notifications of Degree Issuance Requests
- Generate Tokens/Tickets for each Request:
 - Unique
 - With Estimated Processing Timeframes
- View Status of All Requests
 - Pending
 - Processed
 - New requests
- Manage Objections:
 - o Inform Students of Objections from
 - FYP Department
 - Finance Department
 - Provide Guidance for Next Steps
- Issue Degrees
 - Update the processed request list with timestamps.
- Issue Transcripts:
 - Include Information such as:
 - Department
 - CGPA
 - Course grades

- Duration
- Photographs

5. Director:

- View Daily Requests
- Monitor Pending Requests
- Monitor Processed Requests
- Track Department-wise Processing Time
- Activity Tracking
 - Visibility of status of each request (pending, processing, or delivered)

User Stories

Note: Importance and estimates are numeric values (1-5) with 1 being lowest and 5 being highest

Total User Stories: 28

Story ID: S-01	Story Title: Degree Issuance	Request Submission
User Story: As a: student I want: to submit a degree So that: I can initiate an eff degree.	issuance form, ficient process of obtaining my	Importance: 5 Estimate: 5
Acceptance Criteria:		Type:
1. Given that: I want to init When: I navigate to the dearthen: I should be able to fi 2. Given that I am on the d When: I fill out the form wi program details and any rethen: I should be able to s	egree issuance section th personal information elevant documentations,	Search Workflow Manage Data Payment Report/View

iser Story:	Importance:
As a: student I want: to submit complaint forms, So that: the university can look at and resolve any discrepancies or errors in my issued degree promptly.	Estimate:
cceptance Criteria:	Type:
1. Given that: I have received an academic document When: I identify any discrepancies or errors Then: I should be able to submit a complaint form to report the issue 2. Given that: I submit a complaint form When: the university receives my complaint Then: they should acknowledge and resolve my query	Search Workflow Manage Dat Payment Report/Viev
	ery Progress Track Importance:
y ID: S-03 Story Title: Qu User Story: As a: student	-
y ID: S-03 Story Title: Qu User Story:	Importance:
Iser Story: As a: student I want: to track the real-time progress of my queries,	Importance:
Iser Story: As a: student I want: to track the real-time progress of my queries, So that: I can monitor the progress and know the expected	Importance: 3 Estimate:
Story Title: Question of the story of the story: As a: student I want: to track the real-time progress of my queries, So that: I can monitor the progress and know the expected timeline for receiving my degree.	Importance: 3 Estimate:

Story ID: S-04 S	tory Title: Receive Digital Documents
User Story:	Importance:
As a: student I want: to receive digital copies of my degree	and transcripts 5
So that: I can use them as needed.	Estimate:
	2
Acceptance Criteria:	Type:
Given that: I have submitted a degree issuant When: I meet all the requirements and the issues been completed Then: I should be issued a digital copy of my degree tory ID: S-05 Story T	suance process Workflow Manage Data
User Story:	Importance:
As a: student I want: to be notified when my degree is read	y for collection,
So that: I can arrange to receive the physical the university.	
the university.	2
Acceptance Criteria:	Type:

☐ Search

☐ Workflow☐ Manage Data

☐ Payment ☐ Report/View

Given that: I have submitted a degree issuance request,

successfully

When: the university has processed my issuance request

Then: I should be notified that my degree is ready for collection

User Story:	Importance:
As a: student I want: to sign into the system with my flex credentials, So that: I do not have to remember the credentials for yet another university system.	3 Estimate:
Acceptance Criteria:	Туре:
Given that: I am a student at the university, When: I want to log into the system Then: I should not have to sign up explicitly and should be able to log in using my flex credentials.	Search Workflow Manage Data Payment Report/View
ory ID: S-07 Story Ti	tle: Form Preview
Ory ID: S-07 Story Ti	tle: Form Previews
User Story: As a: student I want: to see a preview of my filled in forms before submission,	Importance: 2 Estimate:

User Story:	Importance:
As a: student I want: the preview of forms to not be editable,	2
So that: I do not make accidental changes right	Estimate:
before submission.	2
Acceptance Criteria:	Type:
Given that: I have filled out the degree issuance form, When: I preview the form before submission, Then: I should not be able to make accidental changes.	Search Workflow Manage Data Payment Report/View
-	mitted Forms Record
User Story:	
User Story: As a: student	mitted Forms Record
User Story: As a: student I want: to retain the preview of the forms I submitted,	Importance:
User Story: As a: student	mitted Forms Record Importance:
User Story: As a: student I want: to retain the preview of the forms I submitted,	Importance: 1 Estimate:

User Story:	Importance:
As a: student I want: to receive notifications or updates via SMS or email	3
whenever there is any change in the status of my queries,	Estimate:
So that: I can stay updated without having to check the system constantly.	3
Acceptance Criteria:	Type:
Given that: I submit any degree issuance request form, When: the university is processing my request, Then: I should receive updates about the progress of my query.	Search Workflow Manage Dat
	Report/View
ry ID: A-01 Story Title: Degree Issuance Re	equest Notificatio
- 	-
	equest Notification Importance:
User Story:	Importance:
User Story: As a: One stop Admin	Importance:
User Story: As a: One stop Admin I want: to be notified when a student submits a degree	Importance:
User Story: As a: One stop Admin I want: to be notified when a student submits a degree issuance request, So that: I can promptly begin processing their queries.	Importance: 4 Estimate:
User Story: As a: One stop Admin I want: to be notified when a student submits a degree issuance request, So that: I can promptly begin processing their queries.	Importance: 4 Estimate: 3
User Story: As a: One stop Admin I want: to be notified when a student submits a degree issuance request, So that: I can promptly begin processing their queries. Acceptance Criteria:	Importance: 4 Estimate: 3 Type:
User Story: As a: One stop Admin I want: to be notified when a student submits a degree issuance request, So that: I can promptly begin processing their queries. Acceptance Criteria: Given that: I am logged into the system as an admin,	Importance: 4 Estimate: 3 Type: Search
User Story: As a: One stop Admin I want: to be notified when a student submits a degree issuance request, So that: I can promptly begin processing their queries. Acceptance Criteria: Given that: I am logged into the system as an admin, When: a student submits a degree issuance request,	Importance: 4 Estimate: 3 Type: Search Workflow

Jser Story:	Importance:
As a: One stop Admin I want: to generate unique tokens with estimated timeframes	5
for every student request,	Estimate:
So that: they can be processed on a first come first served basis.	5
Acceptance Criteria:	Type:
 Given that: a student submits a request When: the request is received Then: a unique token should be generated and assigned to the request. Given that: a student submits a request When: the token has been generated Then: the student should be notified with an estimated timeframe of processing the request. 	Search Workflow Manage Data Payment Report/View
3. Given that: tokens are generated for student requests When: multiple requests are received Then: the tokens should be assigned on a first come first served basis.	
ry ID: A-03 Story Title: Degree Issua	nce Upon Approval
Jser Story:	Importance:
As a: One stop Admin I want: to issue degrees to the students upon approvals from all	5
the relevant authorities,	Estimate:
So that: the students can be informed of the completion of their requests and receive their degrees.	4
Acceptance Criteria:	Type:
Given that: a degree issuance process is initiated,	¬

Jser Story:	Importance:
As a: One stop Admin I want: to view the status of all pending, processed, and new requests So that: I can manage and prioritize them effectively.	Estimate:
Acceptance Criteria:	Туре:
Given that: I am logged into the system, When: I navigate to request management section Then: I should see a list of all pending, processed and new requests along with their relevant details like student names and dates.	Search Workflow Manage Da Payment Report/Vie
2. Given that: I am viewing the list of students' requests, When: I need to filter or sort the list	
Then: I should be able to sort by status or submission date	
ry ID: A-05 Story Title: Trai	nscript Generati
	Importance:
ry ID: A-05 Story Title: Trai	Importance:
Ty ID: A-05 Story Title: Train Story: As a: One stop Admin I want: the transcripts to automatically be generated for	Importance:
Jser Story: As a: One stop Admin I want: the transcripts to automatically be generated for students when their degree issuance request is approved, So that: the students can receive their academic	Importance: 5 Estimate:

As a: One stop Admin I want: to know about any objections raised by the finance or FYP departments regarding a student's degree issuance, So that: I can inform the student of the issue and guide them about the next steps.	5 Estimate: 5
Acceptance Criteria:	Type:
Given that a degree issuance request is under review, when objections are raised by the FYP or finance departments then I should be informed about the objections	Search Workflow Manage Dat
2. Given that objections are raised against a student's request, when I have reviewed the objections then I should be able to notify the student	Payment Report/View
3. Given that objections are raised against a student's request, when I am notifying the student then I should be able to include the details of reason for	
objection and guide them about the next step.	
objection and guide them about the next step. Ty ID: A-07 Story Title: Autor	natic List Update
	matic List Update
ry ID: A-07 Story Title: Autor	
Jser Story: As a: One stop Admin I want: the requests list to automatically be updated when a degree is issued,	Importance: 4 Estimate:

User Story:	Importance:
As a: Director I want: to view a list of all the requests generated	3
on a specific day,	Estimate:
So that: I have a comprehensive overview of daily activities.	3
Acceptance Criteria:	Type:
 Given that: I am viewing the list of student requests, When: I need to view all the requests received on a specific day Then: I should be able to filter the requests by date. Given that: I am logged in as the director, When: I filter the requests by current date Then: I should see a list of all requests generated 	Search Workflow Manage Data Payment Report/View
on a specific day.	
on a specific day. ry ID: D-02 Story Title: View	r Pending Requests
on a specific day. ry ID: D-02 Story Title: View User Story:	Importance:
on a specific day. ry ID: D-02 Story Title: View User Story: As a: Director	
on a specific day. ry ID: D-02 Story Title: View User Story:	Importance:
on a specific day. ry ID: D-02 Story Title: View User Story: As a: Director I want: to access a list of all pending requests,	Importance:
on a specific day. ry ID: D-02 Story Title: View User Story: As a: Director I want: to access a list of all pending requests, So that: I can monitor the remaining workload and identify	Importance: 3 Estimate:

User Story:	Importance:
As a: Director I want: to view all the processed requests,	2
So that: I can track the efficiency of the process.	Estimate:
	2
Acceptance Criteria:	Type:
Given that: I am viewing the list of student requests, When: I filter the list to view all processed requests Then: I should see all processed requests with details list student name and finalization date.	Search Workflow Manage Data Payment
	Report/View
ory ID: D-04 Story Title: View	Processing Metric
User Story:	Processing Metric Importance:
User Story: As a: Director	Processing Metric
User Story:	Processing Metric Importance:
User Story: As a: Director I want: to view processing details such as the time taken by	Processing Metric Importance:
User Story: As a: Director I want: to view processing details such as the time taken by each department to process a request, So that: I can identify bottlenecks and optimize the processes	Processing Metric Importance: 4 Estimate:

User Story:	Importance:
As a: Director I want: to track the real-time progress of requests, So that: I can stay informed about the progress and status of every request.	3 Estimate:
svery request.	3
Acceptance Criteria:	Type:
Given that: students submit any request form (degree issuance, complaint) When: the university begins processing the request Then: I should be able to view the real-time activity log of each request.	Search Workflow Manage Data Payment Report/View
ory ID: Y-01 Story Title: Request Proces	
User Story:	ssing Timestamps Importance:
User Story: As a: FYP Department Staff	
User Story: As a: FYP Department Staff I want: each request to be time stamped when the processing	Importance:
User Story: As a: FYP Department Staff	Importance:
User Story: As a: FYP Department Staff I want: each request to be time stamped when the processing begins and ends,	Importance: 3 Estimate:

User Story:	Importance:
As a: FYP Department Staff I want: to receive notifications when a student submits a	3
degree issuance request,	Estimate:
So that: I can promptly begin processing their queries.	3
Acceptance Criteria:	Type:
Given that: I am logged into the system, When: a student submits a degree issuance request Then: I should be given timely notifications	Search Workflow Manage Data Payment Report/View
ry ID: Y-03 Story Title: Requests Eval	
User Story:	Importance:
User Story: As a: FYP Department Staff	
User Story:	Importance:
User Story: As a: FYP Department Staff I want: to accept, reject, or raise objections to a degree	Importance:
User Story: As a: FYP Department Staff I want: to accept, reject, or raise objections to a degree issuance request, So that: I can effectively process requests and inform the	Importance: 5 Estimate:
User Story: As a: FYP Department Staff I want: to accept, reject, or raise objections to a degree issuance request, So that: I can effectively process requests and inform the student of the decision.	Importance: 5 Estimate: 4

User Story:	Importance:
As a: Finance Department Staff I want: to verify that all outstanding fees of a student including	5
the issuance fees are paid,	Estimate:
So that: I can ensure that an issuance request meets the financial criteria for approval.	5
Acceptance Criteria:	Type:
Given that: a degree issuance request is under review, When: all financial criteria are met by the student Then: I should be able to approve the issuance request	Search Workflow Manage Data Payment Report/View
tory ID: F-02 Story Title: Requests Evalua	
User Story:	Importance:
User Story: As a: Finance Department Staff	
User Story: As a: Finance Department Staff I want: to accept, reject, or raise objections to a degree	Importance:
User Story: As a: Finance Department Staff	Importance:
User Story: As a: Finance Department Staff I want: to accept, reject, or raise objections to a degree issuance request, So that: I can effectively process requests and inform the	Importance: 5 Estimate:
User Story: As a: Finance Department Staff I want: to accept, reject, or raise objections to a degree issuance request, So that: I can effectively process requests and inform the student of the decision.	Importance: 5 Estimate:

User Story:	Importance:
As a: FYP Department Staff I want: to receive notifications when a student submits a	3
degree issuance request,	Estimate:
So that: I can promptly begin processing their queries.	3
Acceptance Criteria:	Type:
Given that: I am logged into the system, When: a student submits a degree issuance request Then: I should be given timely notifications	Search Workflow Manage Data Payment Report/View

Team Member Roles:

Ahmad Farhan: Product Owner

Responsible for defining and prioritizing the product backlog, representing the customer's needs, and ensuring the team delivers value by focusing on high-priority features.

Hasan Kamal: Scrum Master

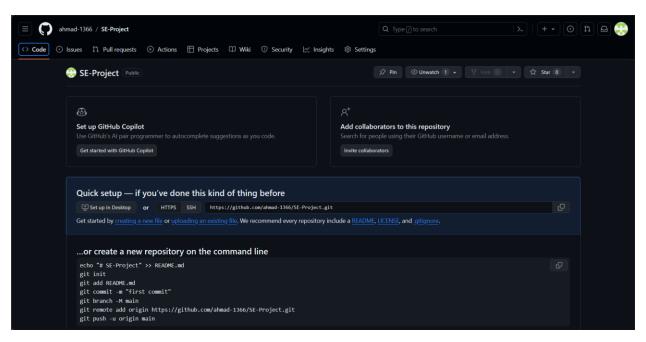
Facilitates the Scrum process, removes impediments that hinder the team's progress, ensures adherence to Scrum principles, and helps the team improve its efficiency and effectiveness.

Fatima Mazhar: Dev Team

Self-organizes to deliver increments of working software during each sprint, collaborates with the Product Owner to understand requirements, and continuously improves its processes to deliver high-quality products.

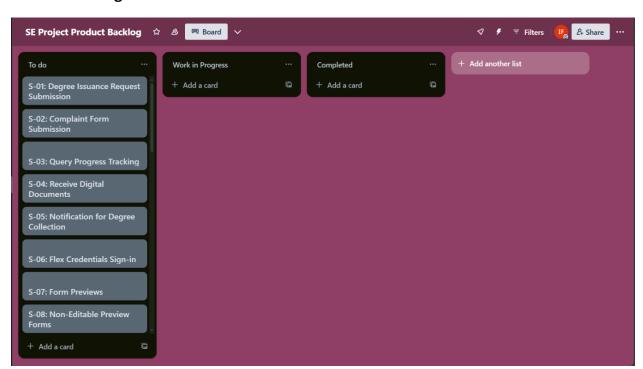
GitHub:

ahmad-1366/SE-Project (github.com)



Trello:

Product Backlog



Sprint Backlog

