

Indian Institute of Information Technology, Vadodara

College HR Management and Payroll System

Termination Analysis

CS301 Software Engineering Project – Autumn 2015

team #02 - ninEngineers

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Author/ Reviewer:

Author/ Reviewer	New Version	Date
Yash Choubey	v1.0	15 th November 2015
Manu Sharma	v1.1	16 th November 2015

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1. Purpose

The purpose of this project is to summarize the development process, set of deliverables and analyze the learning done during the course of the project, development of the Personal Software Processes and Team Software Processes. One of the goals of this document is to set guidelines for the future project teams pursuing any software development, and make them aware of the obstacles that hindered our project. It helps in evaluating the success of the project, in terms of what was planned and what part of it came out as the final product.

2. General information

Project Name : Payroll and HR Management System

Commence Date 15th August, 2015

Termination Date 16th November, 2015

Team 2 (ninEngineers)

Institute : IIIT Vadodara

Course : Software Engineering

Course Instructor: Dr. Asim Banerjee

Mentor: Hardik

Team Leader: Murtuza Bohra

3. Artifacts Checklist

Artifacts	Response
Have project documentation and other items been prepared, collected, audited and archived	Yes
Feasibility Report(Rejected Projects)	Yes
Feasibility Report (Accepted Project)	Yes
Project Proposal	Yes
Requirement Analysis Report	Yes
Project Plan	Yes
SRS	Yes
Gantt Chart	Yes
Test Cases	Yes
Draft User Manual	Yes
Risk Assesment and Mitigation Plan	Yes
System Test Plan	Yes
Design Documents	Yes
Traceability Matrix	Yes
Source Code	Yes

Test Report Format	Yes
Project Report	Yes
User Manual	Yes
Installation Manual	Yes
Minutes of Meeting	Yes
Skill Matrix	Yes
Termination Analysis	Yes
Presentation	Yes

4. Deviations

The implementation of the Project threw up various challenges and we had to find our way past them and constantly adapt to changes and to strive to get back on track. During the entire phase of the project the team had incorporated several action plans and some short term goals were made at every meeting. The team members were novice as how to develop a system according to the Software Engineering Principles and there was a time constraint and an associated learning curve for the Technologies/Frameworks/Testing Strategies. Following Check list shows what were the functionalities we had planned to implement and Test while deciding the project scope and what all could be implemented.

Login
 Create new employee
 Delete new employee
 Leave form
 Loan form
 Leave Granting
 Loan Granting
 Change/Update Salary Components
 View Payslips
 Generate Employee Payslip
 Generate Bank Payslip
 View leave records
 View loan records
 Logout

5. Lessons Learnt

- ☐ During the project timeline the team was able to understand the importance of human resources and how different it is from managing other hardware and software resources.
- ☐ The team also learnt how to plan accordingly to the project scope as we learnt that the two features we planned to implement could not be completed due to time constrain.

- The team got a good experience of dealing with development changes in real world as all of us were unaware of how are real clients dealt with.
- Each error should be given enough care and should not be left for the future as it may affect other phases and modules considerably. Errors should be checked as soon as found. System and related documents should be reviewed and checked as soon as possible to avoid adverse conditions.
- Our team almost came to a point where we were going to lose all our data and work products in the last phase but as we had few back up and configuration management plans we could avoid the disaster. Always keep repositories where all work products can be saved. Identify all risks very carefully and plan accordingly.
- High quality documentations helps team in phases of coding, designing and integration. So unlike the common perception of documentation being a waste of time in disguise, the group found documentation to be of substantial significance. We had to keep referring the documents in almost every phase of the system development. Our SRS has been the most useful in all documents which helped us tracking user requirements.

6. Work Products and Member Involvement

Sr. No.	Phase/Work	Members Involved
1	Predevelopment Phase	Entire Team
2	Requirement Gathering Phase	Entire Team
3	Design Phase	Entire Team
4	Development Phase	Entire Phase
5	Unit Testing(Front End)	Shalinee Singh, Sameer Bhati
	Unit Testing(Back End)	Murtuza Bohra, Nitin Kumar Singh
6	Testing Phase	Nitin Kumar Singh, Shalinee Singh, Sameer Bhati, Murtuza Bohra
7	Documnet Review	Ajay Shewale, Manu Sharma, Rahul Nalawade, Shalinee Singh
8	Termination Report	Yash Choubey, Shalinee Singh
9	Product Presentation	Manu Sharma, Yash Choubey
10	Final Review	Entire Team

7. Conclusion

On the whole, it can be said that more than planning, designing and implementing, it is about working harmoniously in sync with other team members. If each member does his part properly, there is no space left for mistakes and even if there are, they can be corrected in a calm manner and not by heated arguments. With good understanding, few conflicts and difference in opinions, lot of learning, the group was able to develop a reasonably high-quality product in a timely and cost-effective manner whatever we could deliver. As a team we are very much thankful to each other for supporting as well this course and our course instructor to impart the knowledge and importance of Software Engineering Principles and to give us this precious experience of working together on a project which could always be cherished in our lives. This was a really nice experience for our life.