Course Objective: To learn and follow the tasks involved in SDLC and on that basis develop project as per the requirements determined.

Course Outcomes: Upon completion of the course, the student shall be able to

CO1: Plan, design, implement and test a useful and robust application.
CO2: Apply database management systems concepts to organize, store and retrieve data.
CO3: Demonstrate the ability to work as a team member and/or leader.
CO4: Apply appropriate model to build effective application.
CO5: Communicate effectively with a range of audiences.

Programme Outcomes:

P01: Ability to understand the concepts of key areas in computer science.
P02: Ability to design and develop system, component or process as well as test and maintain it so as to provide promising solutions to industry and society.
P03: Effective communication and presentation skill.
P04: Ability to understand professional and ethical responsibility.
P05: Recognition of the need for life-long learning.

Programme Outcomes and Course Outcomes mapping:

<table>
<thead>
<tr>
<th>Programme Outcomes</th>
<th>CO1</th>
<th>CO2</th>
<th>CO3</th>
<th>CO4</th>
<th>CO5</th>
</tr>
</thead>
<tbody>
<tr>
<td>P01</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>P02</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>P03</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>P04</td>
<td></td>
<td></td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>P05</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
</tbody>
</table>

Table 1 Program and Course outcome mapping

Project Guidelines:

• Student must have to continue with the same team and same project definition of their third semester.
• Project work execution shall be in parallel with other course teaching-learning activity. Assessments of project work shall also be in parallel with remaining courses’ assessment.
• Guide shall be allocated to the teams by Project committee in the first week of semester.
• Project can be accomplished by using concepts, tools and/or technologies of the courses taken by the student during their earlier semesters or of any other course beyond the curriculum.

Ms. Mubashhirahbanu Shekh
• Project team must refine the requirements analyzed in previous semester and freeze the project requirements with tools and technologies and submit the same document dually signed by students and guide to project committee before second week of the semester.

**Project Hours:**

• Approximately minimum 100 hours to be spent by student for project work.

**Support and guidance team for Project:**

• Support and Guidance Team is created so that student or guide can receive additional support for respective project work.

<table>
<thead>
<tr>
<th>System Analysis and Design</th>
<th>KBL, BAD, KYP, TPR, JBU, PBG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database Design</td>
<td>JRS, ADP</td>
</tr>
<tr>
<td>System Testing</td>
<td>BCP, JKT, PBG</td>
</tr>
<tr>
<td>Web based Development</td>
<td>PBN, JHT, VRF, RMP, KKB, MMS</td>
</tr>
<tr>
<td>Mobile based Development</td>
<td>DCP, ZMK, UJP</td>
</tr>
<tr>
<td>Content Management over Web Application</td>
<td>UYS, KKB</td>
</tr>
<tr>
<td>Data Analytics</td>
<td>BCP, JRS, JKT, CMT</td>
</tr>
<tr>
<td>IoT based Development</td>
<td>BCP, PRS, JAP</td>
</tr>
<tr>
<td>Project Development Support</td>
<td>Respective Guide</td>
</tr>
</tbody>
</table>

> Table 2 Support and guidance team for project

**Project Timeline:**

• Teams are expected to plan their project tasks well in advance and execute the same with punctuality.
• Students must keep track of submissions by timely referring the mails and guidelines/circular related to project work published on our website
• Project team must submit the timeline of [100 x total team members] schedule to the guide in the 2nd week of semester.
• Time line must contain specific task to complete within specified duration.
• Project Timeline must be contain minimum 12 – 15 tasks related to the project execution and duration of each task.
• Timeline will be evaluated twice during semester.
• Project Timeline must submit according to format given in **Annexure-I.**
Task Timeline:

- During the semester tasks given in Table-3 will be carried out by student or guide.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Task</th>
<th>Conducted By</th>
<th>Duration (in weeks)</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Requirement freezing and choosing of tools and technologies</td>
<td>Student</td>
<td>3</td>
<td>Document with finalized requirements</td>
</tr>
<tr>
<td>2</td>
<td>Data dictionary, and User Interface</td>
<td>Student</td>
<td>3</td>
<td>Implemented data repository</td>
</tr>
<tr>
<td>3</td>
<td>Presentation regarding “Modularity in project management”</td>
<td>Guide</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>Implementation of at least 40% functionalities</td>
<td>Student</td>
<td>5</td>
<td>Demonstration of implemented functionalities</td>
</tr>
<tr>
<td></td>
<td>Presentation regarding “Test case designing and validation process”</td>
<td>Guide</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>Implementation of all specified functionalities</td>
<td>Student</td>
<td>7</td>
<td>Demonstration of implemented functionalities</td>
</tr>
<tr>
<td>6</td>
<td>Report generation including Dashboard</td>
<td>Student</td>
<td>8, 9</td>
<td>Demonstration of Reports including Dashboard</td>
</tr>
<tr>
<td>7</td>
<td>Test case reports</td>
<td>Student</td>
<td>10-11</td>
<td>Demonstration of test cases</td>
</tr>
<tr>
<td>8</td>
<td>Final Project Document</td>
<td>Student</td>
<td>12</td>
<td>Spiral bound document</td>
</tr>
</tbody>
</table>

Table 3 Task timeline during semester

Reporting:

- A project team shall maintain a log book.
- A student doing project at institute shall have to report about the project’s progress to guide on assign project time slot.
- Refer format for logbook according to Annexure-II.

Project Progress and Evaluation

- Project must be evaluated on continuous basis through following parameters:
  - Project timeliness
  - Usability of project
  - Project work related documentation
  - Project work related presentation
To determine the progress of the project work, following parameters must be considered:

<table>
<thead>
<tr>
<th>Assessment Code</th>
<th>Assessment Type</th>
<th>Occurrence</th>
<th>Each Of Marks</th>
<th>Weightage in CIE of marks (50)</th>
<th>Evaluated By</th>
<th>Tentative Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Timeline Status Report</td>
<td>2</td>
<td>10</td>
<td>2x2=4</td>
<td>Guide</td>
<td>13/12/2019, 20/01/2020</td>
</tr>
<tr>
<td>A2</td>
<td>Presentation</td>
<td>2</td>
<td>60</td>
<td>5x2=10</td>
<td>Panel decided by the Project Committee</td>
<td>10/01/2020, 17/02/2020</td>
</tr>
<tr>
<td>A3</td>
<td>Document Report</td>
<td>2</td>
<td>30</td>
<td>3x2=6</td>
<td>Panel determined for Presentation</td>
<td>03/01/2020, 03/02/2020</td>
</tr>
<tr>
<td>A4</td>
<td>Semester End Examination</td>
<td>1</td>
<td>60</td>
<td>30x1=30</td>
<td>Panel decided by the Project Committee</td>
<td>11/04/2020</td>
</tr>
</tbody>
</table>

Table 4: Assessment types with specification

- Each team will be given at least twenty minutes of project presentation followed by approximately ten minutes of viva.
- Project team is only eligible for presentation if they have review certificate, which is certified by respective guide. Review certificate is required for each presentation as per the format given in Annexure-VI.

**A1: Timeline Status Report:**

- There shall be two timeline status reports, which shall be evaluated by guide.
- In first timeline status report timeline and freeze project requirement must be submit to project committee and evaluated by guide based on following criteria:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Marks (10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freezing of requirement</td>
<td>05</td>
</tr>
<tr>
<td>Student Reporting</td>
<td>05</td>
</tr>
</tbody>
</table>

  Table 5: Parameters and marks for timeline status report-1

- Timeline shall be evaluated by guide on daily basis and the status has to be marked by the project guide on the day of estimated completion date or actual end date, whichever comes first. The status can further be updated on the day of estimated completion date or actual end date whichever comes later. When the status is set to “Completed”, the mode must also be marked by the guide.
- Timeline status report must be submit on specified date with updated status and mode by guide and photocopy of logbook to the project committee as per the format given in Annexure-III with declaration.
• Timeline status report – 2 is evaluated based on following parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Marks (10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Completion Percentage</td>
<td>-</td>
</tr>
<tr>
<td>Work Completion Marks</td>
<td>07</td>
</tr>
<tr>
<td>Student Reporting</td>
<td>03</td>
</tr>
<tr>
<td>Remarks*(Reasons for project lagging and steps for coping up)</td>
<td></td>
</tr>
</tbody>
</table>

*Table 6 Parameters and marks for timeline status report-2*

A2: Presentation:

• There shall be two presentations, which shall be evaluated by examiner panel.
• During presentation, a student has to bring log book, updated timeline and document.
• Student shall use presentation slides to explain the project work.
• No make-up work shall be accepted for missed or failed presentation.
• Presentation must be reviewed by internal guide. A review certificate must be submitted at time of presentation. [Note: A review certificate format will be provided by Project Committee before time of presentation.]
• Presentation marks weightage, template, and objective is as below:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Marks (60)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirement Analysis</td>
<td>3</td>
</tr>
<tr>
<td>System design</td>
<td>6</td>
</tr>
<tr>
<td>Demonstration</td>
<td>25</td>
</tr>
<tr>
<td>Coding Specification</td>
<td>20</td>
</tr>
<tr>
<td>Presentation Skills</td>
<td>6</td>
</tr>
</tbody>
</table>

*Table 7 Evaluation parameters and marks for presentation-1*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Marks (60)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation of project</td>
<td>20</td>
</tr>
<tr>
<td>Technical and Testing Skill</td>
<td>15</td>
</tr>
<tr>
<td>Presentation and communication skills</td>
<td>10</td>
</tr>
<tr>
<td>Implementation of suggestion given in Presentation 1</td>
<td>5</td>
</tr>
<tr>
<td>User reports</td>
<td>10</td>
</tr>
</tbody>
</table>

*Table 8 Evaluation parameters and marks for presentation-2*

• Objective of Presentation 1:
  o To verify, that the students are on right path of project execution.
  o To assess the project implementation skills and presentation skills.
  o To determine the process of project implementation.
  o To provide an insight for modification, enhancement into the current work and suggestions for improvement for better execution of succeeding work.
Presentation -1 must consist of the following:

- Project title, team member names, enrolment numbers, guide name
- Project problem definition with functionalities
- Data dictionary
- GUI design

**Objective of Presentation 2:**

- To verify that the students have fulfilled the requirements.
- To verify SRS, conceptual diagrams, data dictionary and reports.
- To verify that students have documented in their project work the comments/suggestions of improvement given during presentation 1.
- To assess presentation skills, project implementation skills.
- To verify coding standards, design user reports.
- To provide an insight for modification, enhancement into the current work and suggestions for improvement for better execution of succeeding work.

Presentation - 2 must consist of the following: Project title, team member names, enrolment numbers, and guide name

- Project problem definition with functionalities
- Data dictionary
- User Interface design (Screenshot of functionality implemented and reports generated)
- Critical code of project
- Reports
- Test cases (Screenshots of validation performed in project)

A3: Document Report:

- There shall be 2 documentation reports submission during the semester.
- Students have to verify document and get it signed by guide and submit to project committee.
- Project Document -1 will be partial document and Project Document -2 will be full spiral bound copy of document.
- In case, if a student failed to meet the deadlines, he/she shall receive zero marks in particular parameter.
- As Project Document- 2, student shall have to submit spiral bounded copy of project document compulsorily in the prescribed format along with soft copy in CD before the Semester End Presentation with approval of internal guide as well as signed certificates from institute and endorsed by Program coordinator.
- Marks weightage of Documentations are as given below:

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Marks(30)</th>
<th>Topics for partial submission from project report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Document flow &amp; Formatting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Data dictionary</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GUI design</td>
<td>9</td>
<td>Chapter 1, 2, 3 format discussed at end of document.</td>
</tr>
<tr>
<td>Coding specification</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Reporting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Viva</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

*Table 9 Evaluation parameters for Presentation – 1*

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Marks(30)</th>
<th>Topics for submission from project report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation or Working demo</td>
<td>12</td>
<td>Full Document as format discussed below.</td>
</tr>
<tr>
<td>Validation and testing</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Dashboard and reports</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Incorporation of Suggestion given in 1st project document progress report</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Reporting</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Viva</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

*Table 10 Evaluation parameters for Presentation - 2*
**Project Document Report Format:** Document of project shall be creating using following format.

i. **Title Page**

ii. **Project Certification Form(From Institute)**

   [The Institute certificate should be signed by internal project guide and endorsed by program coordinator.]

iii. **Declaration certificate**

   [A self-declaration regarding work originality and non-plagiarism. Declaration certificate format is given below.]

iv. **Acknowledgement**

   [All persons (e.g. guide technician, friends, and relatives) and organization/authorities who/which have helped in the understanding of the project shall be acknowledged.]

v. **Table of Contents with page numbering**

vi. **List of Tables, Figures, schemes**

1. **Introduction of Project**

   1.1 **System outline**

   [System outline means the introduction of system to be develop.]

   1.2 **Purpose**

   [Purpose means the objective to develop a project. Purpose describes what a project is trying to achieve.]

   1.3 **Scope**

   [Project scope should have a good idea of what the project consists of (and what will not be part of the project). This statement will give a view of the project.]

   1.4 **Tools and Technology**

   [Mention the technologies i.e. hardware and software to be used in your project development and required for deployment.]

   1.5 **Functionalities**

   [Describes the functionality in system in following two parts: Expected functionalities, Exciting functionalities. All functionalities should be well described.]

   1.6 **User Characteristics**

   [Identify classifications of users of your system. E.g. System administrator, client. Care should be taken that no user name will be “USER”. Write user wise functionality available in proposed system with detail description.]

   1.7 **Data Dictionary, integrity constraints**

   [A set of information describing the contents, format, and structure of a database and the relationship between its elements used to control access to and manipulation of the database. Database must be normalized.]

   1.8 **Summary**

<table>
<thead>
<tr>
<th>Expected Functionalities</th>
<th>Exciting Functionalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of functionality – 1</td>
<td>Name of functionality - 1</td>
</tr>
<tr>
<td>Name of functionality – 2</td>
<td>Name of functionality - 2</td>
</tr>
<tr>
<td>Count : &lt;count&gt;</td>
<td>&lt;count&gt;</td>
</tr>
<tr>
<td><strong>Total No. of Functionality:</strong> &lt;count&gt;</td>
<td></td>
</tr>
<tr>
<td><strong>Total No. of Tables:</strong> &lt;count&gt;</td>
<td></td>
</tr>
</tbody>
</table>
2. System Design

2.1 GUI Design (Functionality wise)

2.2.1 Traversals (In hierarchical form)

<table>
<thead>
<tr>
<th>Menu1</th>
<th>Submenu1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Menu2</td>
<td>Submenu1</td>
</tr>
<tr>
<td></td>
<td>Submenu2</td>
</tr>
<tr>
<td></td>
<td>Submenu3</td>
</tr>
</tbody>
</table>

2.2.2 Screenshots

- Image with caption

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data From: Table, End User, Remote Server or others.</td>
</tr>
<tr>
<td>Data To: Table, End User, Remote Server or others.</td>
</tr>
<tr>
<td>Critical Validations: Regular expression/other relevant things with description.</td>
</tr>
</tbody>
</table>

2.2.3 Error page with description

[Status code based error handling / list of dialogue box with error description]

2.2.4. Summary

<table>
<thead>
<tr>
<th>Functionality 1</th>
<th>Number of Pages/Forms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functionality 2</td>
<td>Number of Pages/Forms</td>
</tr>
<tr>
<td>Functionality 3</td>
<td>Number of Pages/Forms</td>
</tr>
<tr>
<td>Total</td>
<td></td>
</tr>
</tbody>
</table>

3. Coding Specification

3.1. External libraries

[List and describe used APIs, libraries, plug-ins, web services and algorithms.]

E.g.: MD5 Encryption Algorithm for storing password, Google Location API to fetch current location for particular web page.

3.2 Coding standard [If Any]

- [Critical code with justification is required.]
- [Line of Code for whole project: <count>]

4. Reports

4.1 Dashboard

<table>
<thead>
<tr>
<th>View-1 Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data From</td>
<td>Table, End User, Remote Server or others</td>
</tr>
<tr>
<td>Data To</td>
<td>Username</td>
</tr>
<tr>
<td>View-2 Name</td>
<td>Description</td>
</tr>
<tr>
<td>Data From</td>
<td>Table, End User, Remote Server or others</td>
</tr>
<tr>
<td>Data To</td>
<td>Username</td>
</tr>
</tbody>
</table>
4.2 TPS/MIS Reports

<table>
<thead>
<tr>
<th>Image with caption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report-1 Description</td>
</tr>
</tbody>
</table>

| Input Fields |
| Used Tables |
| Usage |

4.3 Summary

[No. of reports user wise]

5. Project Testing

5.1. Unit Testing

[[Applied functionalities with its testing description.]

5.2. Testing of any three functionalities except login.

[Test Case Report]

5.3. Summary [No. of Test Cases]

6. Future scope in detail

7. Learning during Project Work

8. References

[List of books or web links that used during project.]

*Note: Consider above given specifications as least expected content. Enhancement is preferred in specifications on the basis of the nature of the project.

Guideline for Report Formatting:

- Use A4 size page with 1" margin all sides.
- Header should include Project title and footer should contain page number and enrollment numbers.
- Chapter name should be of Cambria font, 20 points, Bold.
- Main heading should be of Cambria font, 16 points, Bold.
- Sub heading should be of Cambria font, 12 points, Bold.
- Sub heading of sub heading should be of Cambria font, 12 points, Bold, Italic.
- Paragraph should be of Cambria font, 12 points.
- Line spacing - 1.5 lines, before - 0, after - 0.
- No chapter number for references.
- Before chapter 1, give page number in roman letter (Title Page, Project Certification Form, Acknowledgements, Table of Contents/Index with page numbering, List of Tables, Figures, Schemes and Summary/abstract of the project work).
- Each project document must have front page according to Annexure-IV.
- Each project document must have declaration certificate page according to Annexure-V.
Annexure-I: Project Timeline Format

<<Institute Name>>

<<Course>><<No.of Semester>> Semester

Course Name: DSE6 Project
Course Code: 030010415

Project Team: <<No>>

Project Title:

Project Timeline

Project Timeline planning must list all the specific required tasks that are required to achieve the functionalities described in system design. Tasks must be measurable.

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Project Task</th>
<th>Estimated Start Date</th>
<th>Estimated End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Days <count>

Declaration:

I/We hereby declare that the timeline is prepared keeping in mind the complexity of each task and other aspects related to this project development. The duration planned is meant to be as close as the actual one.

The tasks and deadlines are approved.

<table>
<thead>
<tr>
<th>Enrolment Number</th>
<th>Name</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<<Guide Name>>
<<Signature>>

Date:

Place:

Ms. Mubashhirahbanu Shekh
### Annexure-II: Format of logbook

#### 1st Page of Logbook

<table>
<thead>
<tr>
<th>Team No:</th>
<th>Semester:</th>
<th>Course:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment No</td>
<td>Name</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Student Details:**

**Project Title:**

**Guide Name:**

#### 2nd Page of Logbook

<table>
<thead>
<tr>
<th>Date of Reporting</th>
<th>Enrollment No.</th>
<th>Task Assigned</th>
<th>Comment regarding previous task</th>
<th>General Comment</th>
<th>Student Signature</th>
<th>Internal Guide Signature</th>
</tr>
</thead>
<tbody>
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### Annexure-III: Timeline status report format

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Project Task</th>
<th>Estimated Start Date</th>
<th>Estimated End Date</th>
<th>Actual Start Date</th>
<th>Actual End Date</th>
<th>Status (Complete/Pending) &amp; Date</th>
<th>Mode (In time/Early/Delay) &amp; Date</th>
</tr>
</thead>
</table>

#### Declaration:

The estimated dates are as per the timeline planning submitted. The actual dates are mentioned as the tasks have started and/or ended.

The status is marked after appropriate verification.

<table>
<thead>
<tr>
<th>Enrolment Number</th>
<th>Name</th>
<th>Signature</th>
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<<Guide Name>>  <<Signature>>

Date:

Place:
Annexure-IV: Format of front Page

PROJECT

<<TITLE IN CAPITAL LETTERS>>

Submitted By,

<<Student’s Name (Enrollment Number)>>,

<<Student’s Name (Enrollment Number)>>

Guided By,

<<Internal Guide Name>>

for partial fulfillment of the requirements
for the Degree of Bachelor of Computer Applications
B.V.Patel Institute of Computer Science,
Uka Tarsadia University.
December, 2019.
Annexure V: Declaration Certificate

DECLARATION

We hereby declare that the project titled “<<Project Title>>” is fully implemented by us. It is neither paid nor copied. Even though, later on, in case of any infringement found for this project work, we are solely responsible for the same and understand that as per UGC norms, the University can revoke the degree conferred to us.

<table>
<thead>
<tr>
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<th>Name</th>
<th>Signature</th>
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<tbody>
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</tbody>
</table>

Declaration:

As a guide, I assure that there is no plagiarism found in submitted document.

<table>
<thead>
<tr>
<th>Guide Name</th>
<th>Signature</th>
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<tbody>
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</tbody>
</table>
CERTIFICATE

This is to certify that required part of the project entitled “<<Project Name>>” is submitted by <<Student Name (Enrolment No.)>>, <<Student Name()>> and <<Student Name(Enrolment No.)>> as a partial fulfillment during the 4th semester of <<5 years of Integrated MCA/Bachelor of Computer Applications>> for the academic year 2019-2020.

I hereby declare that following points are verified related to <<1st /2nd>> project presentation of this project work:

- Project Presentation slides
- Project Demonstration

<<Guide Name>>

Guide

Date:

Place: Bardoli, UTU