**Instrutions:**

General:

* Keep a page limit of 15 - 20 pages (without appendix section) with 12pt font size.
* Use report writing style ( not in point form)
* Do not use a writing style as a personal assignment submission
* Use section, sub section numbers.
* Proofread for spelling and grammar
* Do not include plagiarism in your reports. i.e. do not copy and paste text/ images from web as it is. You may get the idea and write it in your own words and cite the reference (since it is not your idea).
* Write the reports using report writing style (avoid I, me, you). Write in a style that you submit to an actual client (not as a personal assignment submission).
* Name the document with your index number followed by the project title.
* Sometimes you may find it difficult to explain all the details within the page limit. In that case try to summarise your descriptions and write the report.
* If you have extra things apart from the given sections in the template, you can include them in the appendix section (for eg. project schedule, interesting code segments, data considered for the report, etc. can be included in the appendix)
* You may reuse the text content you have submitted for project proposal, feasibility study, SRS, Design, Test plan with improvements as suggested by the feedback.

Figures:

* Use figure numbers and figure captions.
* Use diagrams/ images/ screen shots of interfaces with high resolution to get a clear figure
* Use the figure captions in the form of Fig. 1. <<caption>> and when explain it in the text, use the abbreviation “Fig. 1,” even at the beginning of a sentence.
* When you include pseudocode for one of the major algorithms in your system, include it in a text box, font type = Courier New, font size = 8 and it should include a figure caption with the corresponding figure number.
* When you use a tool to draw diagrams, change the font settings of the diagram; It is better to have font in black colour and if possible do not fill the object in the diagram. Also, try to re-locate the objects in a compressed manner (you may drag elements/objects close to each other). This will be useful to get a clear image; in order to make the diagram small in size without reducing the resolution quality.
* When you include images in your reports, make them “in line with text” ( picture tool bar 🡪 wrap text 🡪 in line with text) and include the caption accordingly. If you include two or more images together ( in a row), group them.
* Describe each diagram with few sentences.

References:

* For references use IEEE (number format) reference style
* Each reference MUST BE cited within the text (specially in the introduction and literature survey sections)
* When you cite references, include the full stop/ period after the citation, at the end. ( eg. ………. [1]. ); not before the square bracket.
* Cite the references within the text in an increasing numbering order (i.e. do not cite in a way : [1] , [6], [2], [5],…)
* Remove hyperlinks (blue colour – underline) from the web addresses/ URLs include in the references.

**Sections to be included in the final report**

**Cover page**

* Title
* Index number

**Abstract/ Executive summary**

*The abstract is a short (about 100-500 word) one paragraph summary of the report including:* ***goals, major aspects, results, and conclusions****.*

*For example, you can briefly state things in the following order:*

*problem you considered (purpose),*

*design and methods indicating the key techniques used,*

*major output (a tool for…),*

*implications of the output.*

**Table of Content** with page numbers

1. **Introduction**

*Briefly describe each sub section [1 page]*

* 1. background of the application domain/ problem
  2. motivation for the selected system development
  3. importance and main purpose of the system (why was this worth doing)
  4. overview/ summary of the system and used approach and outcome

1. **Literature Review**

*Discuss the relevant primary literature/ related systems* ***with citations****. [1 page]*

*- Describe the theoretical aspects considered for your system development.*

*- Analyse other system systems*

*- State what is* ***new/ better in your system*** *compared to other existing systems.*

1. **System Models**
   1. System Requirement *[1 page]*

* *Describe the functional and non-functional requirements of the system [one or two paragraphs in report format]*
* *Include the main usecase diagram of the system and explain it*
  1. System Design *[ 2 pages]*
* *Describe are main architecture used for the system*
* *the class diagram of the system (logical view) and describe the classes and associations*
* *Include the main sequence or activity diagram (process view) and describe it*
  1. Database Design *[ 1 pages]*
* Include ER diagram (if available)
* Describe database schema

1. **System Implementation** 
   1. Implementation Procedure *[1 page]*

*This section should describe the used technologies, tools, resources and applied strategies/ methodologies to develop the system.*

* 1. Materials *[ ½ page]*

*Describe any existing materials you used to implement the system (existing data, information, eg. student marks, weather data); these are the data that you may store in the system database. You could mention their format, size, reference, etc.*

* 1. The Algorithm *[ 1 page]*

*Include and explain the most important algorithm/ pseudocode of the source code*

*Do not include the source code itself*

4.3 Main Interfaces *[ 1-2 pages]*

*Include and describe main interfaces of the system*

1. **System Testing and Analysis** *[2 pages]*
   1. Testing approach

* Describe the considered testing techniques and how they used
  1. Unit Testing, Results and analysis of testing
  2. Aspects related to performance, security, failures

1. **Conclusion and Future Work** *[ 1 page]*

* *conclusions should relate directly to the ideas presented in your introduction*
* *generalise/ explain the significances of system outcome and make your points that support and refer back to the discussed problem in the introduction.*
* *describe interesting observations, new questions, and future work.*

**Reference**

* *List of research papers, articles, websites that cited within the report*
* *Use IEEE or ACM referencing style*
* Refer any data/ information in a standard format (eg. IEEE referencing style)
* For different algorithms/ techniques/ theories you can refer text books.
* For tools you can refer web pages.
* For similar work you can refer research paper articles that describe the work.
* You may include white paper articles for the description of technologies; web URL for the tool references. When you refer such a web page, you have to indicate the (Accessed on <<date>>)

**Appendix**

* Extra details if available