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| Internship Project Title | Digital Book Development (Intermediate) |
| Project Title | Internet of Things (eBook) |
| Name of the Company | TCSiON |
| Name of the Industry Mentor | Abhijeet Valanju/Vimlesh pal |
| Name of the Institute | Alva’s Institute of Engineering and Technology |

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| Start Date | End Date | Total Effort (hrs.) | Project Environment | Tools used |
| 4/11/2020 | 30/12/2020 | 92 | Windows | Visual Studio Code and Sublime |
| **DIGITAL BOOK DEVELOPMENT(INTERMEDIATE)**  **Project Synopsis:**  This project is based on Digitalization of books. This eBook has multiple digital pages that people can navigate through, and are often provided with video, audio and pdf documents. | | | | |
| **Solution Approach:**  We have approached the project by making use of various xml tags for different type of contents such as paragraph, list, and for images also. Making use of **unordered list tag <ul>** and **ordered list tag <ol>** for List. List includes various types of bullet points which were done using **“ListClassDisc”** tag and was specified along with list class inside **<pText>** tag. Linking images from different folders using **“BigImgClass”.** | | | | |
| **Assumptions:**   * Headings of every page has to be inside **<MainHeading>** tag * Sub-headings have to be inside **<SubHeading>** tag * All other contents have to be inside **<PageText>** tag * Every page content has to be inside **<PageData>** text * Paragraphs has to be in **<pText>** tag, which is inside **<PageText>** tag * List has to be inside **<li>** tag which is inside **<ul>** tag * Images has to be put into a single folder named **images** | | | | |
| **Project Diagrams:**  **Project Diagrams are:**   * **Architecture of UAV** * **(a) Single Star Configuration (b) Multi-star Configuration** * **(a) Flat Mesh Configuration (b) Hierarchical Mesh Configuration 281** * **Architecture of FANET** * **Selection of Most Stable Node in Sub-area** * **Various Links in FANET and VANET** * **Example for M2M Communication** * **Overview of M2M Communication** * **M2M Ecosystem** * **M2M Service Platform** * **Non-IP based M2M Network** * **IP based M2M Network** * **Flow when a device is controlled and monitored** | | | | |
| **Algorithms:**   1. Create index page pagecontent\_EN.xml  * Insert Table of content in <tableofcontent> tag * Insert BOOK NAME in <MainBookName> tag * Insert every content of index page using <HeaderContant>  1. Create first page page\_1.xml  * Starting from a <main> tag, insert all the contents in the <PageData> tag * Insert main heading using <MainHeading> tag and subheading using <SubHeading> tag * To write paragraph, enclose paragraph contents using <pText> tag which is inside <PageText> tag * To insert image use “BigImgClass”.   Ex: <div class="BigImgClass"><img src="en/images/1.png"></div>   * To insert the image heading below images, use “ImageHeadingClass” inside <pText> tag * To create List use <li> tag inside <ul> tag. Use “ListClassDisc” for circle bullet points  1. Create Remaining Pages using same Rules | | | | |
| **Outcome:**  Have Successfully created Digital Book. This book can be accessed by any electronic device like Mobile and Desktop | | | | |
| **Exceptions considered:**   * Used sublime text for execution of codes * Used various Artifacts such as video, Audio, and pdfs | | | | |
| **Enhancement Scope:**   * E-pub format can be supported to be readable in Amazon Kindle * There are no digital Rights so anyone can claim this book, So if digital licenses are added the book author would be valued | | | | |
| **Link to Code and executable file:**  **https://github.com/srihari1999/IOT\_Ebook** | | | | |