

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2023
Team ID	C9ECB33BF78A181ACFA4688D759A9C15
Project Name	ESTIMATION OF BUSINESS PROJECT
Maximum Marks	4 Marks

Technical Architecture:

Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

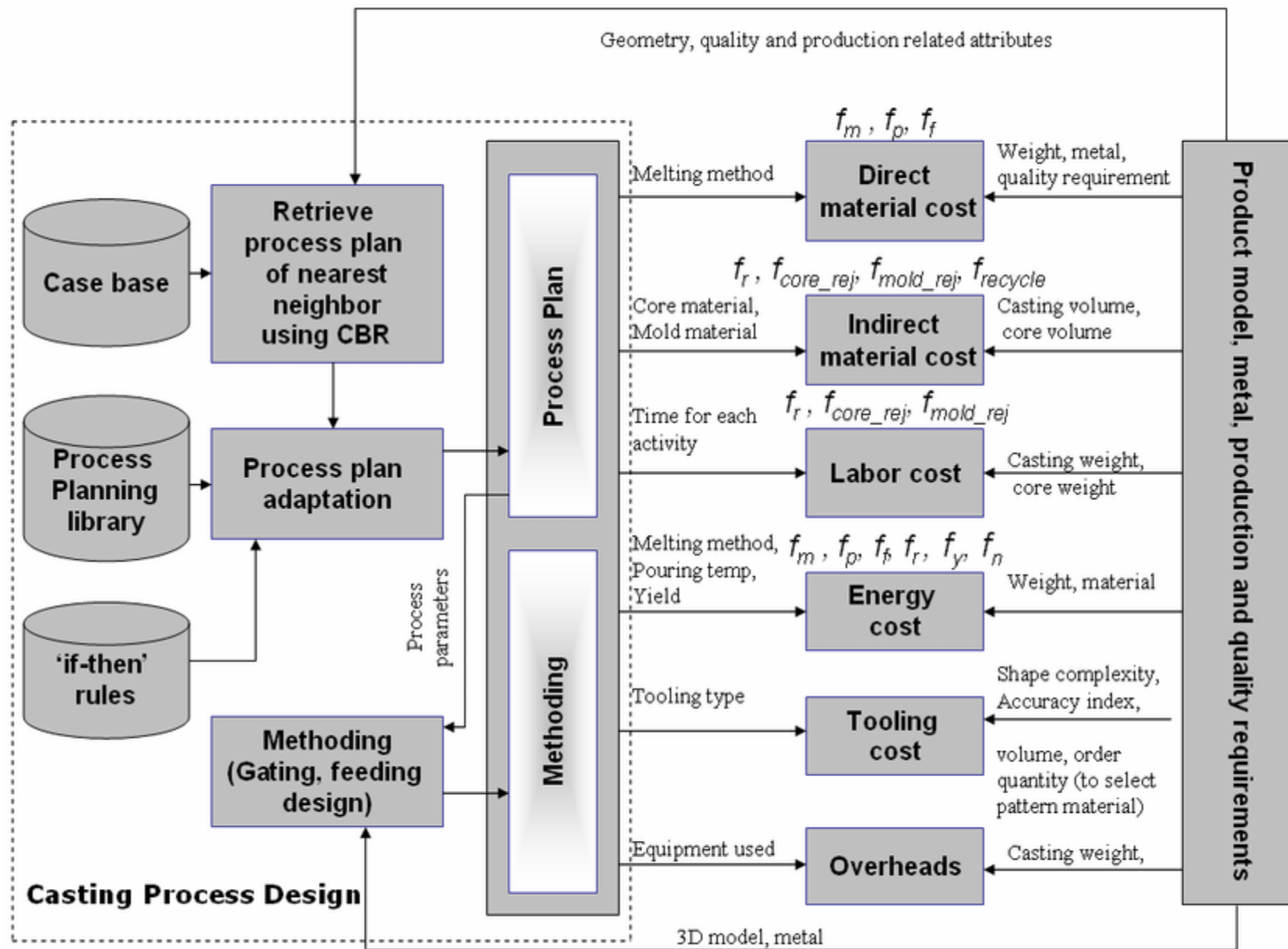


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Project Management Software	Select a project management tool or software to plan and manage the project.	Microsoft Project, Asana, Trello, or Jira
2.	Data Collection and Analysis:	Identify the sources of data relevant to your project, such as market research, financial data	Excel, Google Sheets
3.	Financial Modeling	Spreadsheet Software uses Excel or Google Sheets is commonly used for financial modeling.	QuickBooks or Xero
4.	Cost Estimation	It help estimate costs for construction and engineering projects	Estimate, ProEst, or Procore
5.	Market Research	Conducting surveys and gathering market data.	SurveyMonkey or Google Forms
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Platform Compatibility	Cross-platform compatibility	Windows, macOS, Android
2.	E-commerce and Shopping	These apps enable users to browse and purchase products online..	Amazon, eBay, Shopify.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Hadoop, Apache spark, NoSQL databases

S.No	Characteristics	Description	Technology
4.	Availability	Data security and privacy are vital	NumPy, Pandas, scikit-learn
5.	Security	Examine the research opportunities available at each university, such as labs, centers, and projects related to data analytics	Tableau, Power BI