

# Project Planning Phase

## Project Planning Template

Team ID	LTVIP2023TMID07965
Project Name	Classification Of Arrhythmia By Using Deep Learning With 2-D ECG Spectral Image Representation

### Product Backlog, Sprint Schedule, and Estimation

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Download The Dataset	USN-1	We can download the Dataset contains Six classes	1	Low	Kavya.G Vasanth.L
Sprint-1	Import The ImageDataGenerator Library	USN-2	We can import ImageDataGenerator	1	Low	Kavya.G Gayatri
Sprint-1	Configure ImageDataGenerator class	USN-3	We can configure the ImageDataGenerator class	1	Low	Gayatri Kavya.G
Sprint-2	Apply the ImageDataGenerator	USN-4	We can apply ImageDataGenerator to train dataset	2	Medium	Vetriselvan.PL Bharathidasan.R

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
	functionality to Trainset and Dataset					Vasantha.L
Sprint-1	Import Libraries	USN-5	We can import required Libraries	1	Low	Vasantha.L
Sprint-1	Initialize the Model	USN-6	Initializing the Image recognition model	2	Medium	Kavya.G Gayatri Vasantha.L
Sprint-4	Adding CNN layer	USN-7	We can add Convolutional Neural Network(CNN) used for image/object recognition and classification	4	High	Kavya.G Gayatri
Sprint-4	Adding Dense Layer	USN-8	We can add Dense Layer in which each neuron receives input from all the neurons of previous layer	4	High	Kavya.G Gayatri Vasantha.L
Sprint-4	Configure The Learning Process	USN-9	We can configure The Learning process which is a method, mathematical logic or algorithm that improves the network's performance and/or training time.	4	High	Kavya.G Gayatri Vasantha.L
Sprint-3	Train the Model	USN-10	We can train our model with our image dataset. fit_generator functions used to train a deep learning neural network	3	High	Vasantha.L Kavya.G
Sprint-1	Save the Model	USN-11	We can save The model with .h5 extension	2	Medium	Gayatri Vasantha.L
Sprint-2	Test the model	USN-12	We can Test the model through Loaded necessary libraries, the saved model	2	Medium	Kavya.G Gayatri

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-3	Create Html files	USN-13	We use HTML to create the front end part of the web page.	3	High	Kavya.G Gayatri Vasanth.L
Sprint-4	Build Python code	USN-14	We build the flask file 'app.py' which is a web framework written in python for server-side scripting.	4	High	Kavya.G Gayatri Vasanth.L
Sprint-1	Run the App	USN-15	We can run the App	2	Medium	Vasanth.L Kavya.G
Sprint-2	Register IBM Cloud	USN-16	We can register IBM Cloud	2	Medium	Vasanth.L Gayatri
Sprint-3	Train the model on IBM	USN-17	We can Train Out model on IBM	3	High	Kavya.G Gayatri

## Velocity:

To calculate the team's **average velocity (AV)** per iteration unit

$$Av = \frac{Velocity}{Sprint\ duration}$$

Where,

**Average Velocity** - Story points per day

**Sprint duration** - Number of days (Duration) for Sprints

**Velocity** - Points per Sprint

$$Av = \frac{20}{5} = 5$$

Average Velocity is **4** points per Sprint

## Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

Burndown Chart

