FACTORY SIMULATION SOFTWARE SYSTEM

COLLABORATION AND ACTIVITY DIAGRAMS

GROUP-6

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1. INTRODUCTION

1.1 PURPOSE

The purpose of this document is to show the collaboration diagrams and activity diagrams related to the Factory Simulation Software System. Collaboration diagram is used to depict the architecture of the object residing in the system. The collaboration diagram is also known as a communication diagram. Activity diagram is used to model the control flow from one activity to another.

1.2 DEFINITIONS:

FSSS:

Factory Simulation Software System.

Head:

Factory Head manages the whole factory. Head gets statistics from the service manager and Head analyzes those statistics.

Adjuster:

A person who repairs machines in the factory by taking orders from the service manager.

Service manager:

A person who assigns work to adjusters and maintains the working statistics of adjusters and machines and submit that corresponding data or statistics to the factory head. Service manager separately maintains Machine Queue and Adjusters Queue.

Machine Queue:

A queue is a linear data structure which follows the first in first out method .Here Machine queue refers to the queue of inoperative machines.

Adjuster Queue:

Here Adjuster queue refers to the queue of free adjusters.
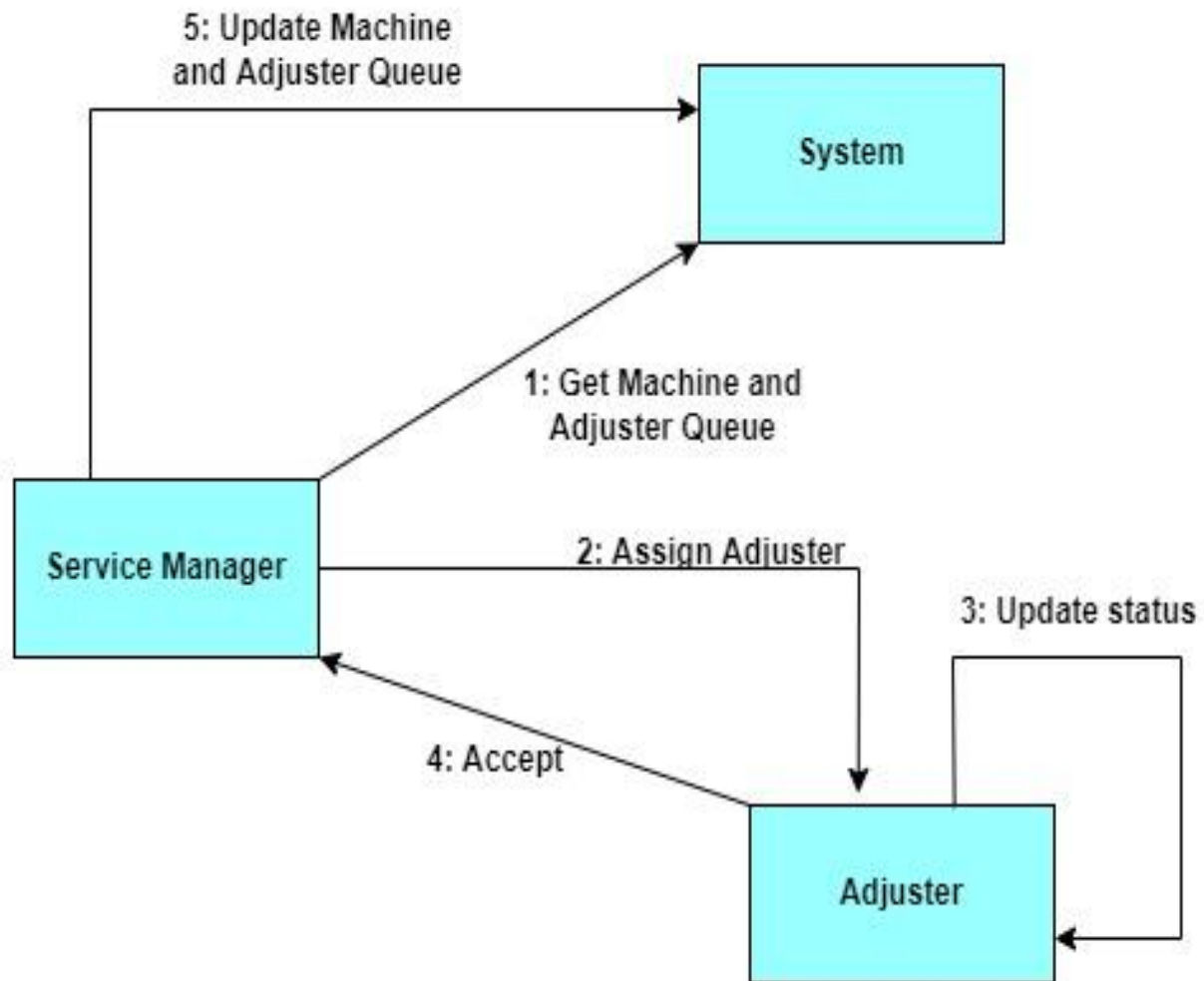

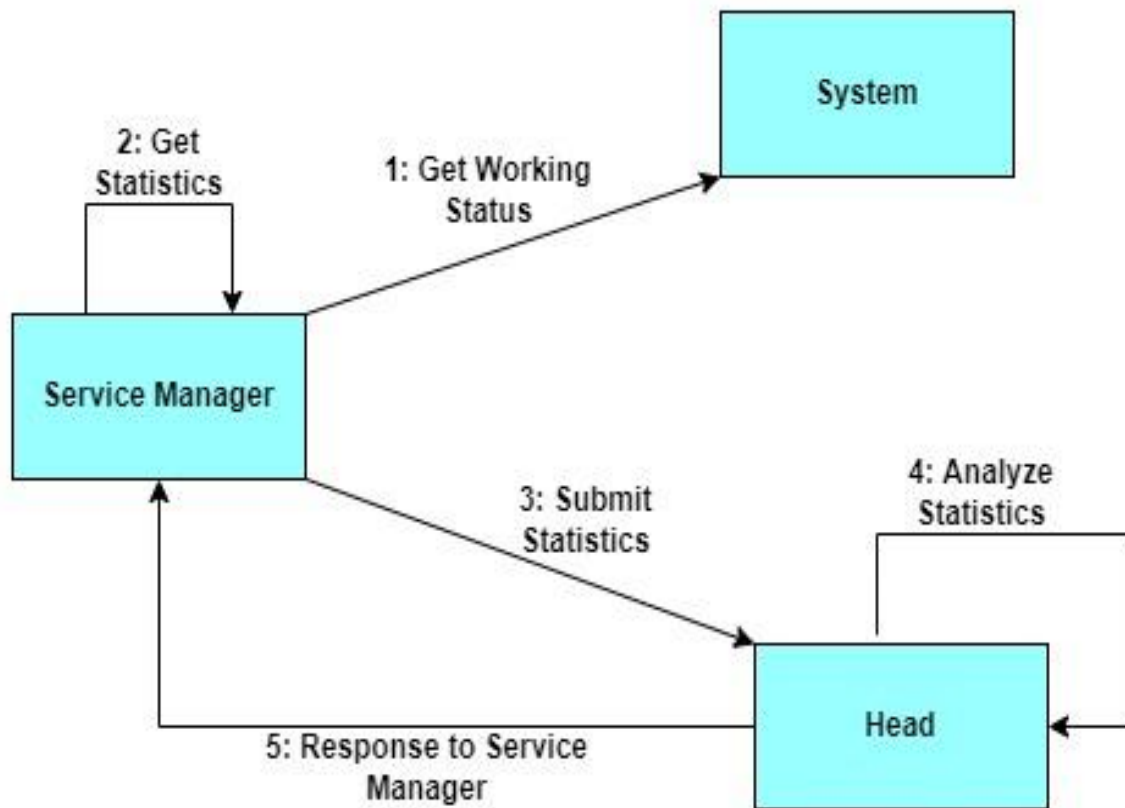## 2. COLLABORATION DIAGRAM

Fig: Assign Adjuster Collaboration

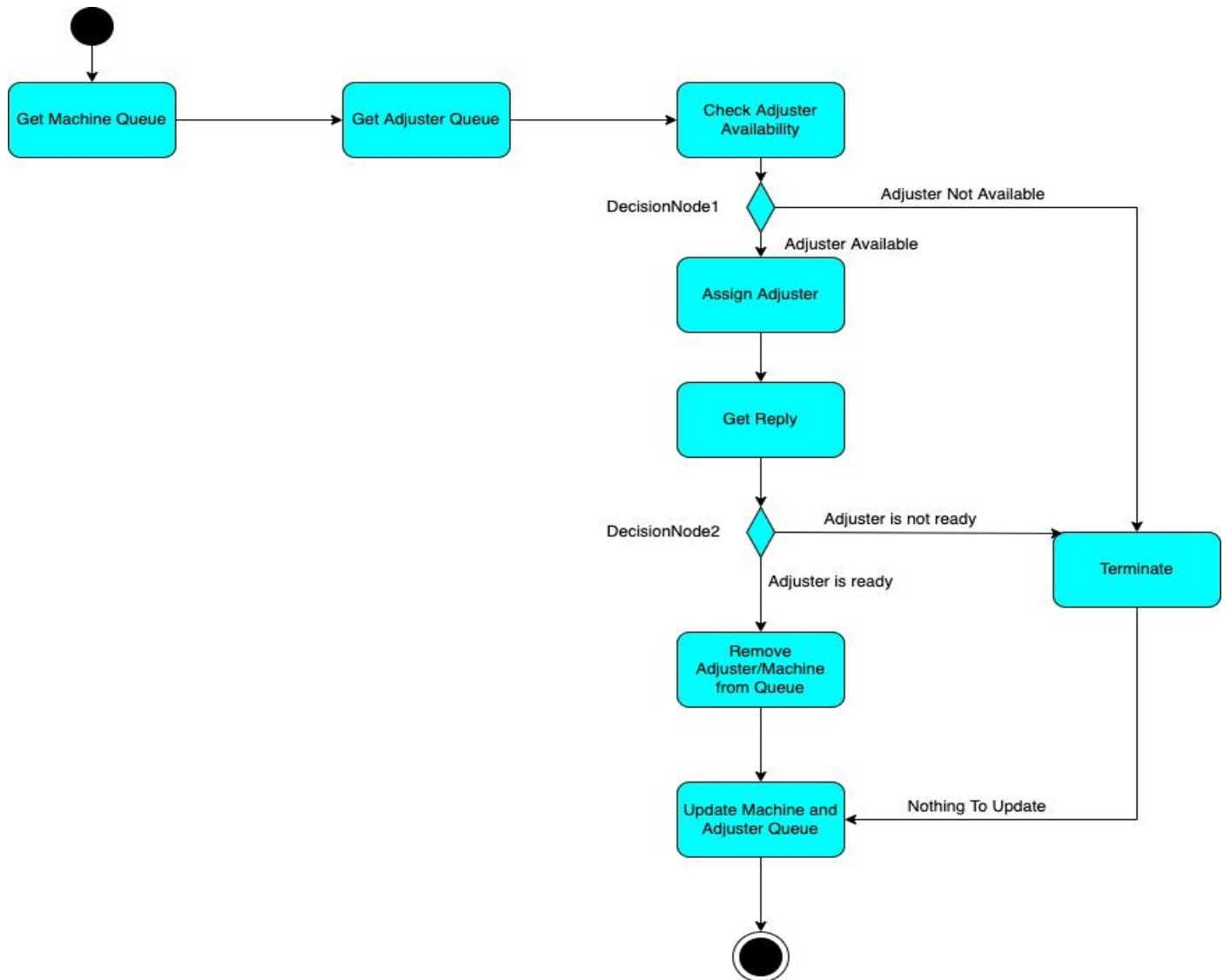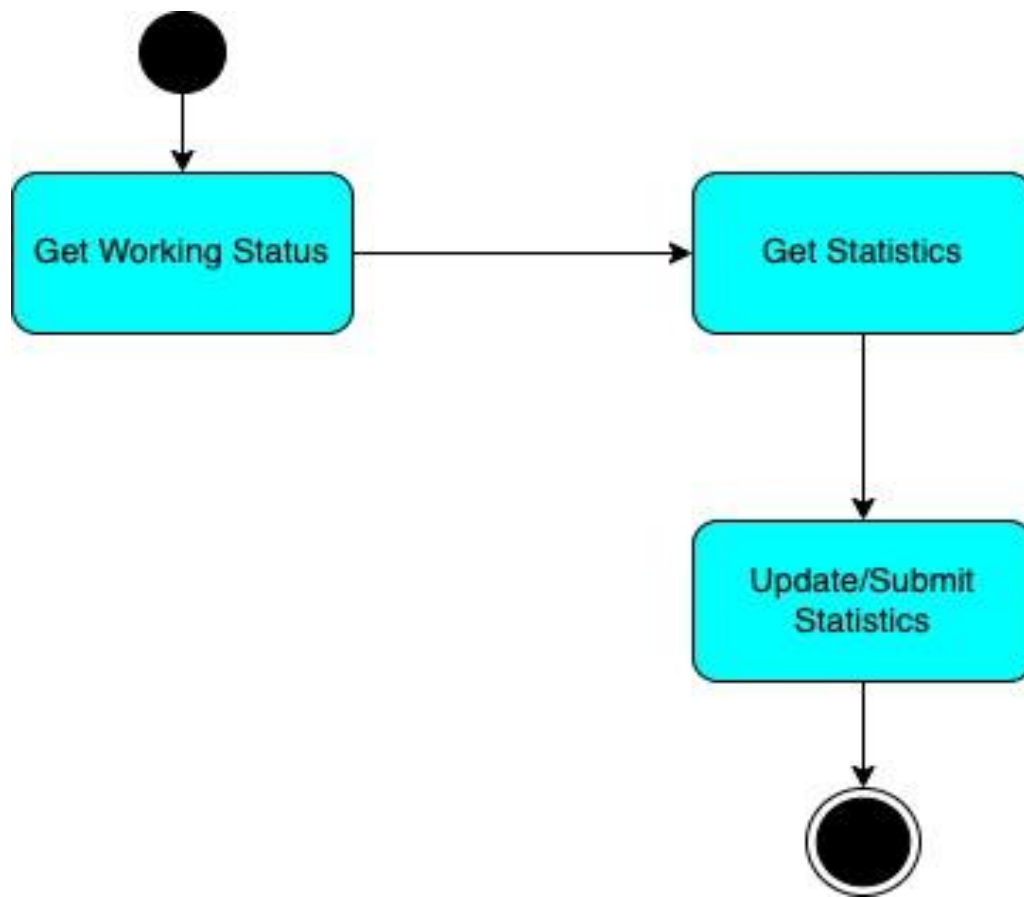**Fig: <u>Submit Statistics Collaboration</u>**

3. ACTIVITY DIAGRAM

Fig: Assign Adjuster Activity Diagram

Fig: <u>Submit Update Activity Diagram</u>