# Introduction

## Overview

Asd is a productivity enhancing tool that keeps track of ongoing projects, employees’ work utilization. Asd is a web-based application that provides interfaces for various stake holders (project leaders, managers, employees).

Asd admins can add new recruits to the employee pool where they’d be assigned to projects according to the respective project leader’s request. The admins can monitor the current work utilization of employees and view over-utilized and cross-utilized employees to better divide their workloads if possible and/or necessary. Asd admins can also view the status and punctuality of projects. Asd aggregates relevant and useful statistics to support data driven decision making regarding how workload is managed within the department.

## Objectives

* Collect work management and human resource details for admins to extract useful information from their statistics.
* Facilitate tracking employee utilization in an everchanging work environment.
* Minimize employee cross-utilization and over-utilization.
* Provide essential information about a project’s status and punctuality to better manage projects depending on their unique cases.
* Provide statistics and aggregations that would be useful for Asd admins to make decisions regarding the work environment.

## The Need for the project

The client lacked a user-friendly and proprietary system that allows them to manage their work environment beyond project planning. Asd keeps track of all ongoing projects and employees that are working on them. It keeps track of their work utilization to reduce cross-utilization and over-utilization. It provides statistics for employee work utilization that allows the admins to make data driven decisions that should maximize departmental productivity.

## Existing Systems and Technologies

The client’s current solution for keeping track of all productivity related data was having a shared spreadsheet where all employees can view the current state of work and update their work status.

Asd provides a more efficient, user-friendly, and work-safe solution for keeping track of work and viewing work details.

## Scope

### Main Actors

* Project leaders
* Managers
* Admins

### Main Use Cases

* Project leaders
  + Add employees to their project teams.
  + Edit project details.
* Managers (extends leader functionality)
  + View project data.
  + View employee data.
* Admins (extends manager functionality)
  + Add new projects.
  + Assign project leaders.
  + Add new employees.
  + Update employee data (promote employee).
  + View statistical details.

## Deliverables

A web-based software system. This contains a central database and functionalities for various stakeholders. Since many stakeholders are involved, different GUIs will be provided to different users.

# Feasibility Study

## Financial Feasibility

## Technical Feasibility

Asd is a complete web-based application. The main technologies and tools that are associated with Asd are

* HTML
* CSS
* JavaScript
* React.js
* PHP
* Laravel
* MySQL (hosted on XAMPP)
* Diagram drawing tools
  + app.diagrams.net
  + www.lucidchart.com

## Resource and Time Feasibility

# Considerations

# References