**Software Engineering [CSI\_5\_SFE] 2022-2023**

# **Coursework - Software Engineering Team development project**

# **Client brief – Express Firm Ltd.**

# Client name

# Express Firm Ltd

# Project aim/description/problem

# Crab farming is becoming popular in worldwide. Crab has become one of the popular foods in Europe and Australia and these countries importing the crab from Asia. They export crab in several countries and the quality and taste of Bangladeshi crab is top rated. Recently the crab business become famous and one of the most profitable businesses ever in Bangladesh. The biggest mangrove forest Sundarbans is appropriate for crab business so, recently Express Firm Ltd started crab business in Southwest region of Bangladesh. Generally, this company work as the same phenomenon of middleman. The core principle of this company is to collect the crab from the fisherman (hard shell crab) and put each alive crab into a box. When they collect the crab, it looks hard shell as soon as the crab change the Shell(mud) it become soft. Soft shell crab price is ten times higher than hard shell. The Express Firm Ltd sell this soft crab to the local export-import company. For the whole process it needs manpower, and huge land to cultivates crab.

# Express Firm Ltd wants to manage their whole process into an online portal. The application should be able to maintain 3 tasks:

# An interactive and responsive application that can calculate the revenue in each month and in each year. It should be able to record all the buying price and selling price. Soft shell crab price determined by four categories such as Category-A, B, C and D. Category A is softer than other categories. The softer the crab is considered as more expensive.

# Employee details and their salary. This company has two different types of employees. A) Permanent employee and paid monthly b) Temporary and paid daily.

# During the process to make hard shell crab to soft shell crab several crab might die. The dead crab is considered as a loss. Therefore, the company also wants to know which fisherman is delivering good quality crab to increase the profit. Also wants to know the death rate of the crab per day so that they can take appropriate action.

# Further reading

# Rahman, M.M., Haque, S.M., Wahab, A., Egna, H. and Brown, C., 2018. Soft-shell crab production in coastal Bangladesh: prospects, challenges and sustainability. *World Aquaculture*, *49*(3), pp.43-47.

# Assessment of mud crab fattening and culture practices in coastal Bangladesh: understanding the current technologies and development perspectives: <https://drive.google.com/file/d/1V18Y_5U3bw9h6aqCj0Ua0MGqLRqXIa89/view>

# The Curious case of crab sector in Bangladesh: https://www.lightcastlebd.com/insights/2019/10/the-curious-case-of-crab-sub-sector-in-bangladesh/