BAHRIA UNIVERSITY, (Karachi Campus)

Department of Software Engineering

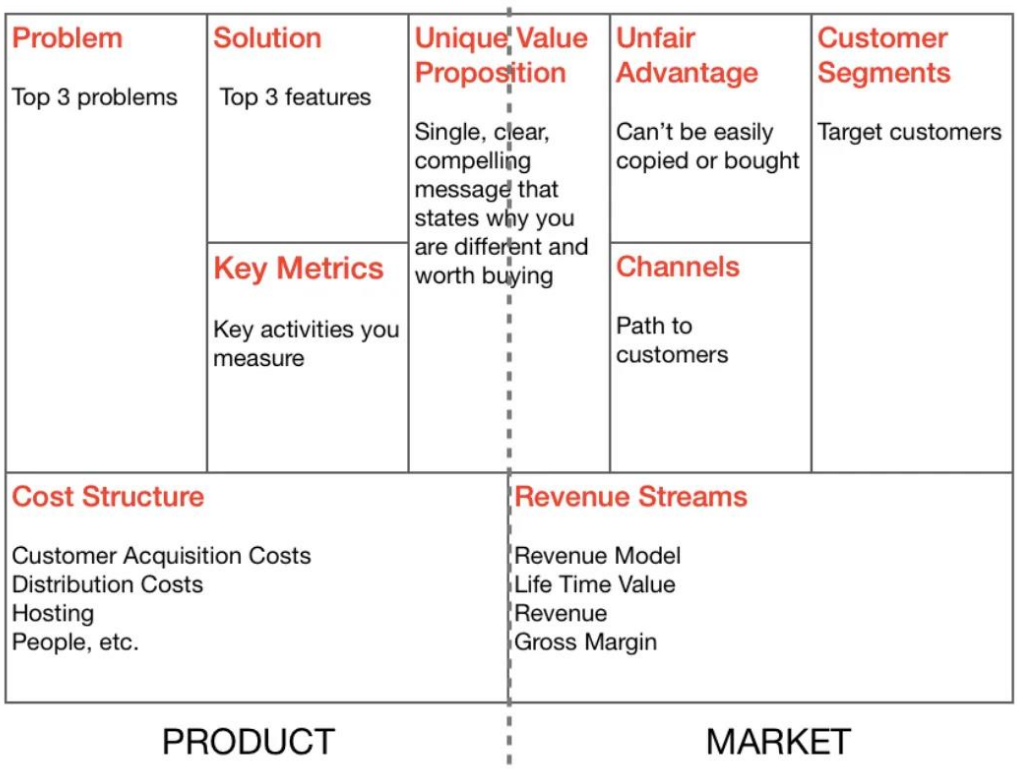
Assignment 1 - Fall 2024

COURSE TITLE:	**ENTREPRENEURSHIP**	COURSE CODE:	**HSS-421**
Class:	**BSE-VII (B)**	Shift:	**Morning**
Course Instructor:	**DR. MUHAMMAD YASIR**	Time Allowed:	**1 Week**
Submission Date:	**15/10/2024**	Max. Marks:	**5 Marks**

Name	**Enrollment**
Muhammad Shoaib Akhter Qadri	02-131212-009

Question No. 1 **[CLO4: 5 Marks]**

Make Lead Model Canvas for your Project. Make this model in Excel and paste here.



Lean Canvas	Designed for:	Designed by:	Date:	Version
			16/Oct/2024	1

Problem	Solution	Unique Value Proposition	Unfair Advantage	Customer Segments
1. **Inconsistent Quality Control:** Due to variations in date size, color, and texture, maintaining consistent quality control is a challenge. 2. **Variety Identification**: Accurately distinguishing between different date varieties with distinct characteristics. 3. **Efficiency in Large-Scale Production:** High-volume date processing facilities face efficiency challenges.	1. Develop a computer vision and machine learning system for automated date classification. 2. Train a deep learning model for precise variety identification. 3. Implement a high-speed image capture and processing system for large-scale efficiency.	Efficient and accurate date fruit classification, ensuring consistent quality and variety identification in large-scale production.	Proprietary machine learning algorithms and an extensive dataset of date fruit varieties.	• Date processing companies • Date growers and suppliers

Existing Alternatives	Key Metrics	High-Level Concept	Channels	Early Adopters
• Manual quality control and sorting processes. • Traditional visual inspection methods, often prone to subjectivity and inefficiency. • Limited use of basic sorting machines without advanced image recognition capabilities.	• Classification accuracy • Processing speed in date sorting • Customer satisfaction and adoption rates	Develop an automated date classification system using computer vision and machine learning for precise quality control, variety identification, and efficient large-scale production.	Mobile app developed with React Native for communication and interaction between users and the classification system.	• Date industry stakeholders • Software suppliers • Data labeling service providers

Cost Structure	Revenue Structure
• software development • Data collection and labeling • Marketing and outreach	• Licensing the classification system • Service contracts for ongoing support and updates • Data labeling services for other industries