

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 15/10/2024 Max. Marks: 5 Marks **Submission Date:**

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.

Doubles	0-1-11	11-1	Malana	1 to Calle	0
Problem	Solution	Unique	•	Unfair	Customer
Top 3 problems	Top 3 features	Propos	ition	Advantage	Segments
		Single, c compelli message states w	ng that ny you	Can't be easily copied or bought	Target customers
	Key Metrics	are different and worth buying		Channels	
	Key activities you measure			Path to customers	
Cost Structure			Revenu	ue Streams	
Customer Acquisition Costs Distribution Costs Hosting People, etc.		Revenue Model Life Time Value Revenue Gross Margin			
PRODUCT			MARKET		

Lean Canvas is adapted from The Business Model Canvas (http://www.businessmodelgeneration.com) and is licensed under the Creative Commons Attribution-Share Alike 3.0 Un-ported License.

			Designed for:	Designed by:	Date: Versio
Lean	Canvas		Designed for.	Designed by.	16/Oct/2024 1
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Prob	lem	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.	Develop a computer vision and machine learning system for automated date classification. Train a deep learning model for precise variety identification.	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
2.	Variety Identification: Accurately distinguishing between different date varieties with distinct characteristics.	 Implement a high- speed image capture and processing system for large-scale efficiency. 			
3.	Efficiency in Large- Scale Production: High-volume date processing facilities face efficiency challenges.				

- 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.

Key Metrics

- Classification accuracy
- Processing speed in date sorting
- Customer satisfaction and adoption rates

High-Level Concept
Develop an automated date
classification system using
computer vision and
machine learning for
precise quality control,
variety identification, and
efficient large-scale efficient large-scale production.

Channels Mobile app developed with React Native for communication and interaction between users and the classification system.

Early Adopters

• Date industry

stakeholders

providers

Software suppliers

Data labeling service

Revenue Structure

- · Licensing the classification system
- · Service contracts for ongoing support and updates
- · Data labeling services for other industries

Cost Structure

- software development
- Data collection and labeling
- · Marketing and outreach