Team B7 Gantt Chart

Pose Set A: Tree Pose, Mountain Pose, Warrior I, Down Dog. These 4 poses are representative of many other yoga poses and will be delivered in MVP Pose Set B: 6 - 10 yoga poses to be added after April 1st

LEGEND CHELSEA SANDRA TIAN

	WEEK 1 SuM T WTh F Sa	WEEK 2 SaSuM T WTh F Sas	WEEK 3 SuM T WTh F SaSu	WEEK 4	WEEK 5 M T WTh F SaSu	WEEK 6 WEEK 7 M T W Th F SaSuM T W Th F S	WEEK 8 aSuM T WTh F Sa	WEEK 9 SuM T WTh F Sa	WEEK 10 SuM T WTh F 5	WEEK 11 WE SaSuM T WTh F SaSuM T				WEEK 15	T W
search															
Research on Similar Projects							Spring Break				С				
Research on OpenPose Source Code											A				
Research on Yoga Websites											R				
							S								
Research on Affine Transformation							P				N				
llect Data							R								
Construct yoga instruction library for (Tree Pose + Mountain)							1				V				
Construct yoga instruction library for (Warrior 1 and Downdog							N				A				
Collect standard pose images for Pose Set A							G				L				
Update pose images for Pose Set A based on test results															
Construct yoga instruction library for Pose Set B												+++++++++		+++++	
							В								
Collect standard pose images for Pose Set B							R								
ntime							E								
Test the runtime of OpenPose on Pose Set A							A								
Determine Transformations to Improve Open Pose Accuracy							к								
Test overall runtime of the integrated system															
													فطنتناهم	نخفف	
ggering: Optical Flow															
Process video with optical flow to see the tracking															
Refine optical flow for more accurate triggering															
Implement calibration to collect user data															
Optical Flow Augmentation of Points															
Optical Testing for Transitions between Poses															
														أعلونونون	
se Comparison															
Define all angles for front view and side view of yoga poses															
Implement function that computes standard angles															
Find error thresholds for Pose Set A															
Construct standard pose library for Pose Set A															
Define and implement symmetric angle comparison															
Find error thresholds for Pose Set B															
Construct standard pose library for Pose Set B															
nerate Instructions															
Design Verbal Instruction - Navie Method															
Design Verbal Instruction - Template 1.0 Method															
Extract and define template instructions for Pose Set A															
Design Verbal Instruction - Template 2.0 Method															
Implement Template Instruction Generator for Pose Set A															
Similarity Method															
Similarity Metriou															
Use Spacy library to find most similar instruction from yoga instruction library															
Modify yoga instruction library to improve similarity method															
performance															
Refine Template instructions for Pose Set A															
Basic Instruction Generator															
Update Instruction Generator based on Pose classes															
Implement Template Instruction Generator for Inverted Poses															
Priority Analysis Function															
Refine template instructions for Pose Set B															
Refine Template Instruction Generator for Pose Set B															
Mock UI design															
Update UI Design Based on Yoga App Research															
Get basic UI functionality with standard pose and video feed															
Integrate Backend with Pygame frontend (Routine Class)															
Integrate TTS Speech Synthesis Watson															
Implement UI Design (Custom routine, Timer for each pose)															
Transition from Tkinter to PyGame															
Implement Visual Feedback (Circle visualization)															
sting & Integration															
Integrate basic Template Instruction Generator & Pose															
Comparison															
Static Image Testing for Pose Set A															
Webcam Testing for Pose Set A															
Mini User Testing on Verbal Instructions (MVP)															
Integrate MVP															
Static Image Testing for Pose Set B															
Webcam Testing for Pose Set B															
User Testing for all poses															
Integrate Final Product															
cumentation															
Abstract															
Proposal Presentation															
Design Presentation															
Design Review Report														+++++	
Midpoint Demo															
Design Document Update Final Poster															
Final Poster Final Demo															