Flex App A Cycle Syncing Workout Program

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What is Cycle Syncing?

Adjusting your lifestyle—diet, workouts, work flow—to synergistically support monthly hormonal fluctuations.



Menstruation

Luteal Phase

Follicular Phase

Ovulation Phase



Typical Workout Programs:

by providing a schedule. Maintain the same intensity throughout the month. Do not accommodate the female hormonal cycle.

Take the guess workout out of building/maintaining fitness

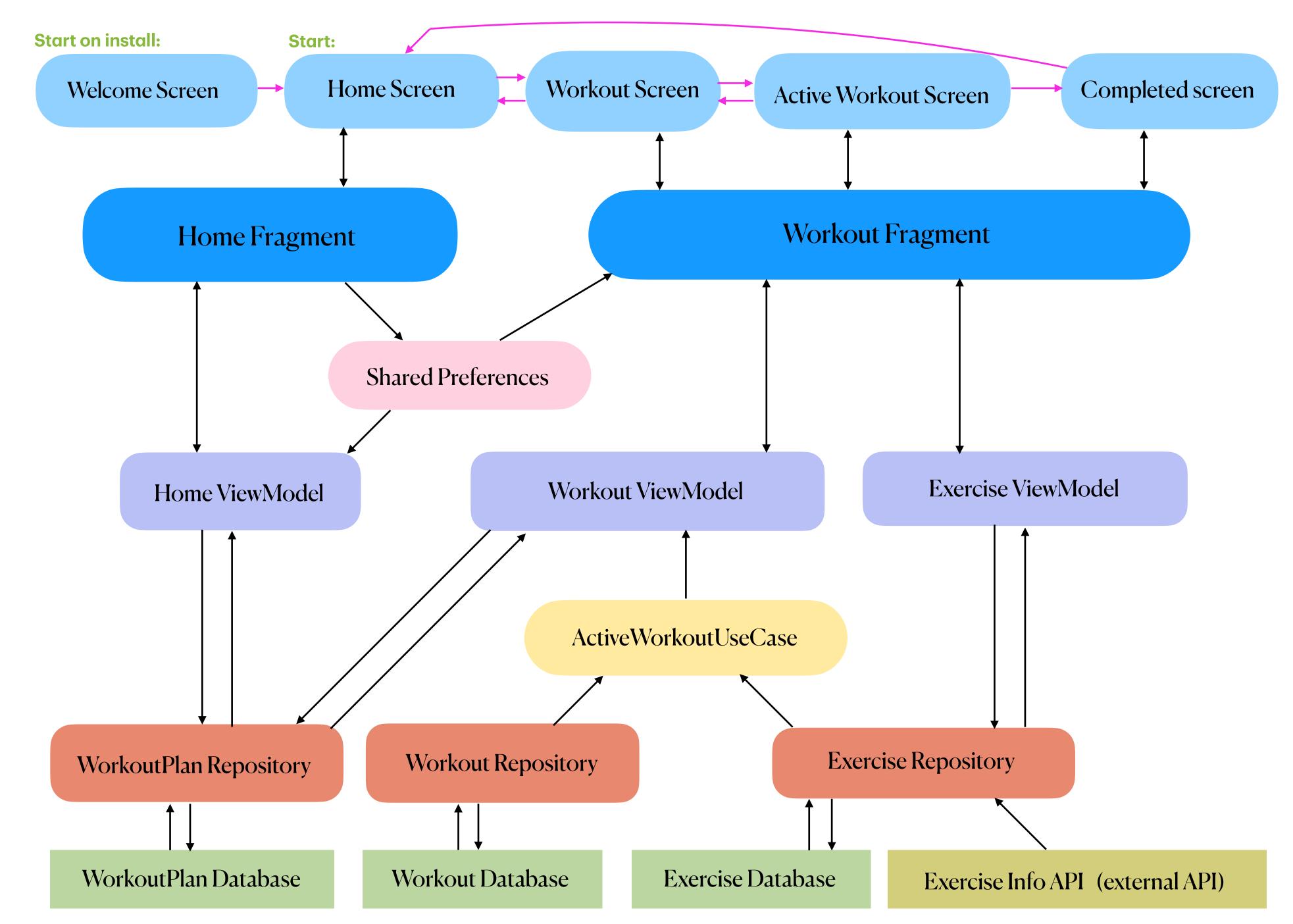
The Flex App

Provides a workout program that has been tailored to synergize with the female hormonal cycle.

- Provides a workout schedule to take the guess workout out building/maintaining fitness
- Adapts the intensity and type of workouts based on the female hormonal cycle

Flex Your cycle synced workout plan Follicular Ovulatory ✓ Luteal Menstrual Your workouts for this phase: Pilates Low Intensity Lift 1 ~ Yoga \checkmark Low Intensity Lift 2 1 Pilates Low Intensity Lift 3 Run





Pink arrows represent perceived user navigation

Two State Flows

- UI State:
 - Loading
 - Success(WorkoutPlan)
- Phase

Welcome Screen:

Flex

Welcome to Flex,

Your cycle syncing workout app!

We provide a workout program that is adapted for your monthly hormonal cycle.

Select your current phase:

Menstrual 0 Follicular Ovulatory \bigcirc Luteal Save

Home Fragment

Home Screen:

	out plar	1	
Menstrua	l Follicular	Ovulatory	Lutea
Your wor	kouts for th	nis phase:	
Yoga			
Walk			
Yoga			
Low Inte	ensity Lift 3		
Yoga			

Flex			
	cycle sy out plar		
Menstrual	Follicular	Ovulatory	~
Your worl Pilates	kouts for th	is phase:	
Low Inte	ensity Lift 1		
Yoga			
Low Inte	ensity Lift 2		
Pilates			
Low Inte	ensity Lift 3		
Run			



Workout Fragment: Workout UI State

Success:

Flex	
Low Intensity Lift 3 Start Workout	
Barbell Hip Thrust	Sets:4 Reps:5
Single-leg glute bridge	Sets:4 Reps:20
Romanian Deadlift With Dumbbell	s Sets:3 Reps:15

Active:	Activity Timer:
Flex	Flex
Low Intensity Lift 3 End Workout Complete Workout	Yoga End Workout Complete Workout
Barbell Hip Thrust	^{5 reps} 29:42
Rest 90 se	conds
Barbell Hip Thrust	5 reps
Rest 90 se	conds
Barbell Hip Thrust	5 reps
Rest 90 se	conds
Barbell Hip Thrust	5 reps
Rest 90 se	conds
Single-leg glute bridge 2	0 reps

Activity Timer:

Completed:

Flex Congrats, You Completed LOW Intensity Lift 31

Return to Home Screen



ActiveWorkoutUseCase **Domain Layer**

• Combines data from the Workout Repository and the Exercise Repository into a list of WorkoutSets.

isActive = false:

• The List<WorkoutSets> contains an item for each exercise listed in the workout

isActive = true :

• The List<WorkoutSets> contains an item for each set and rest in the workout

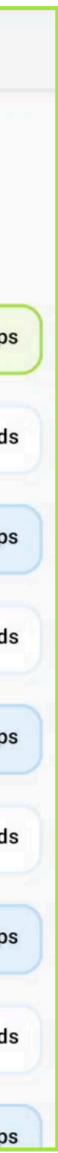
ActiveWorkoutUseCase

isActive = false:

Flex	
Low Intensity Lift 3	3
Barbell Hip Thrust	Sets:4 Reps:5
Single-leg glute bridge	Sets:4 Reps:20
Romanian Deadlift With Dumbb	ells Sets:3 Reps:15

isActive = true:

Flex
Low Intensity Lift 3 End Workout Complete Workout
Barbell Hip Thrust 5 rep
Rest 90 second
Barbell Hip Thrust 5 rep
Rest 90 second
Barbell Hip Thrust 5 rep
Rest 90 second
Barbell Hip Thrust 5 rep
Rest 90 second
Single-leg glute bridge 20 reg



Exercise BottomSheet

ExerciseType: Reps



Equipment: barbell

Targeted muscle group: glutes Exercise description:

Begin seated on the ground with a bench directly behind you. Have a loaded barbell over your legs. Using a fat bar or having a pad on the bar can greatly reduce the discomfort caused by this exercise. Roll the bar so that it is directly above your hips, and lean back against the bench so that your shoulder blades are near the top of it. Begin the movement by driving through your feet, extending your hips vertically through the bar. Your weight should be supported by your shoulder blades and your feet. Extend as far as possible, then reverse the motion to return to the starting position.

Equipment: barbell

Targeted muscle group: glutes Exercise description:

Begin seated on the ground with a bench directly behind you. Have a loaded barbell over your

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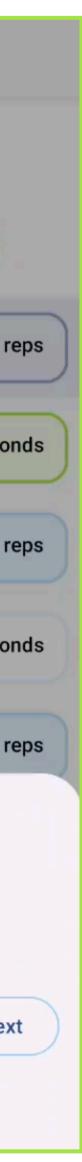
ExerciseType: Timed Flex Low Intensity Lift 1 **End Workout Complete Workout** Elbow plank Back Next Weight used Save*

Equipment: body only Targeted muscle group: abdominals Exercise description:

Get into a prone position on the floor, supporting your weight on your toes and your forearms. Your arms are bent and directly below the shoulder. Keep your body straight at all times, and hold this position as long as possible. To increase difficulty, an arm or leg can be raised.

ExerciseType: Rest

Flex	
Low Intensity Lift 3	
End Workout Complete Work	out
Barbell Hip Thrust	5
Rest	90 seco
Barbell Hip Thrust	5
Rest	90 seco
Barbell Hip Thrust	5
Rest	
Back 81 sec	Ne



Citations

& inspirations

- https://www.withsara.co/blog/cycle sync-your-workouts-to-your-menstrualcycle (Image citation)
- <u>https://api-ninjas.com/api/exercises</u> (external API used)
- Retrofit <u>https://square.github.io/retrofit/</u> (http client)
- *MyFlo* by Flo Living (Cycle tracker app)
- *Alive* by Whitney Simmons (workout app)
- *In the Flo* by Alisa Vitti (book)
- ROAR: How to Match Your Food and Fitness to Your Unique Female Physiology for Optimum Performance, Great Health, and a Strong, Lean Body for Life by Stacy T. Sims Phd (book)
- Women Code: Perfect Your Cycle, Amplify Your Fertility, Supercharge Your Sex Drive and Become a Power Source by Alisa Vitti (book)

