

# 15조 소프트웨어 설계 명세서(SDS)

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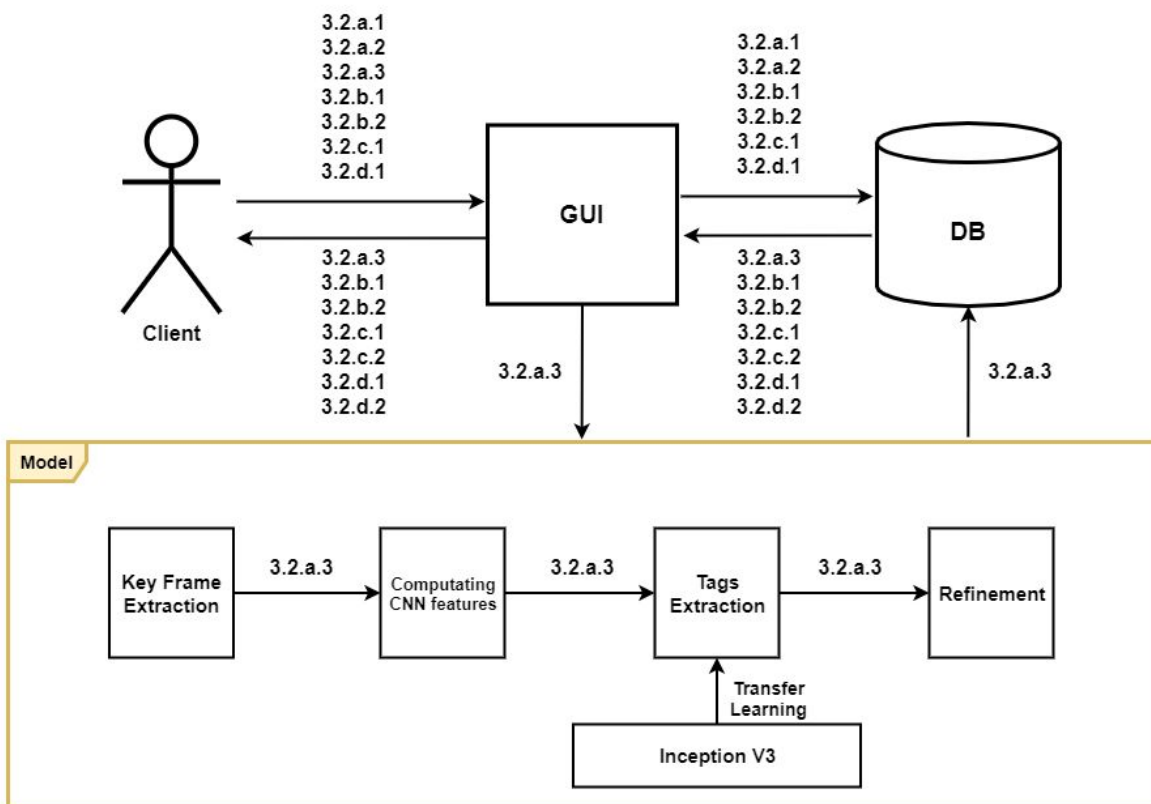


# 목차

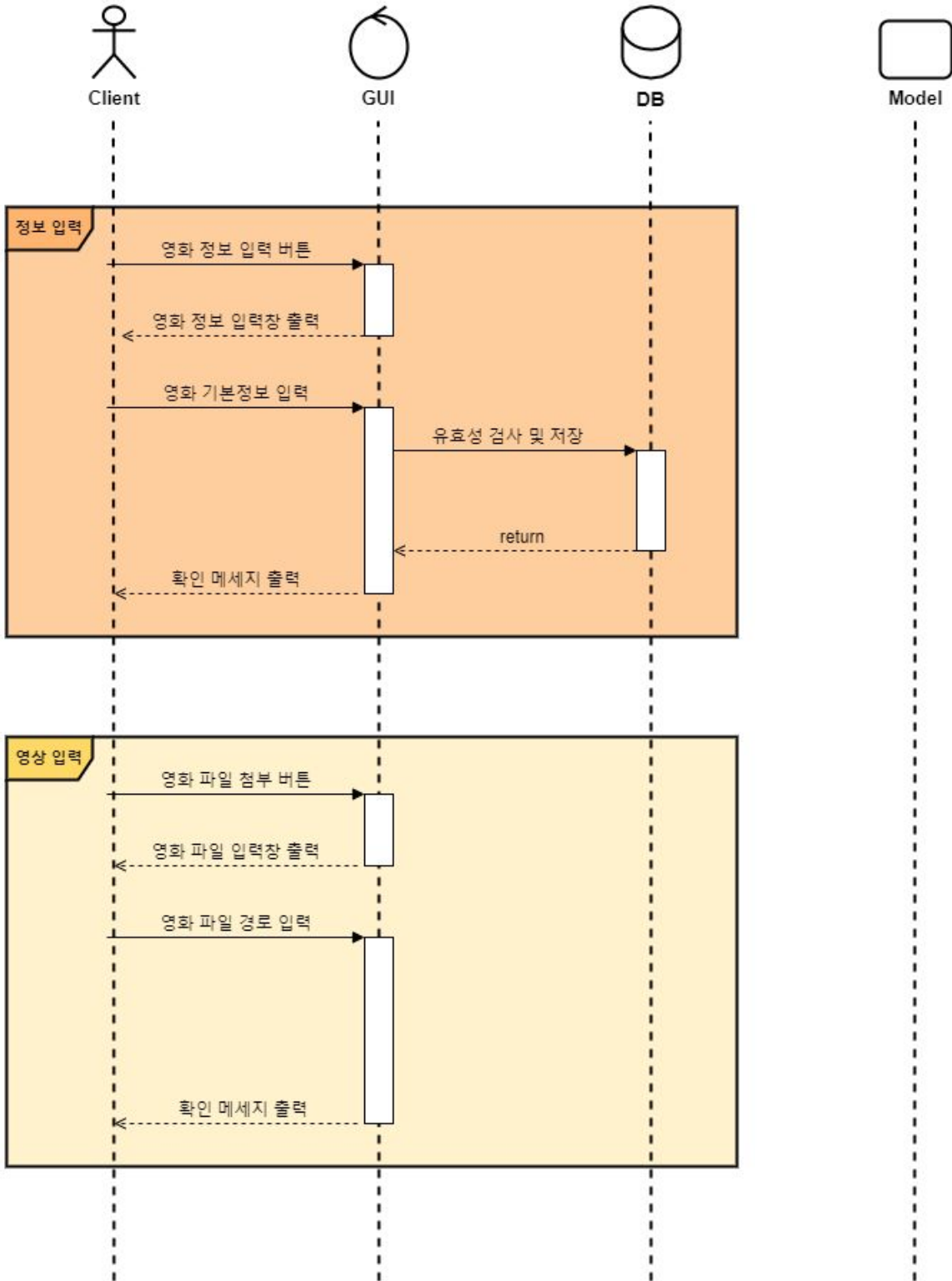
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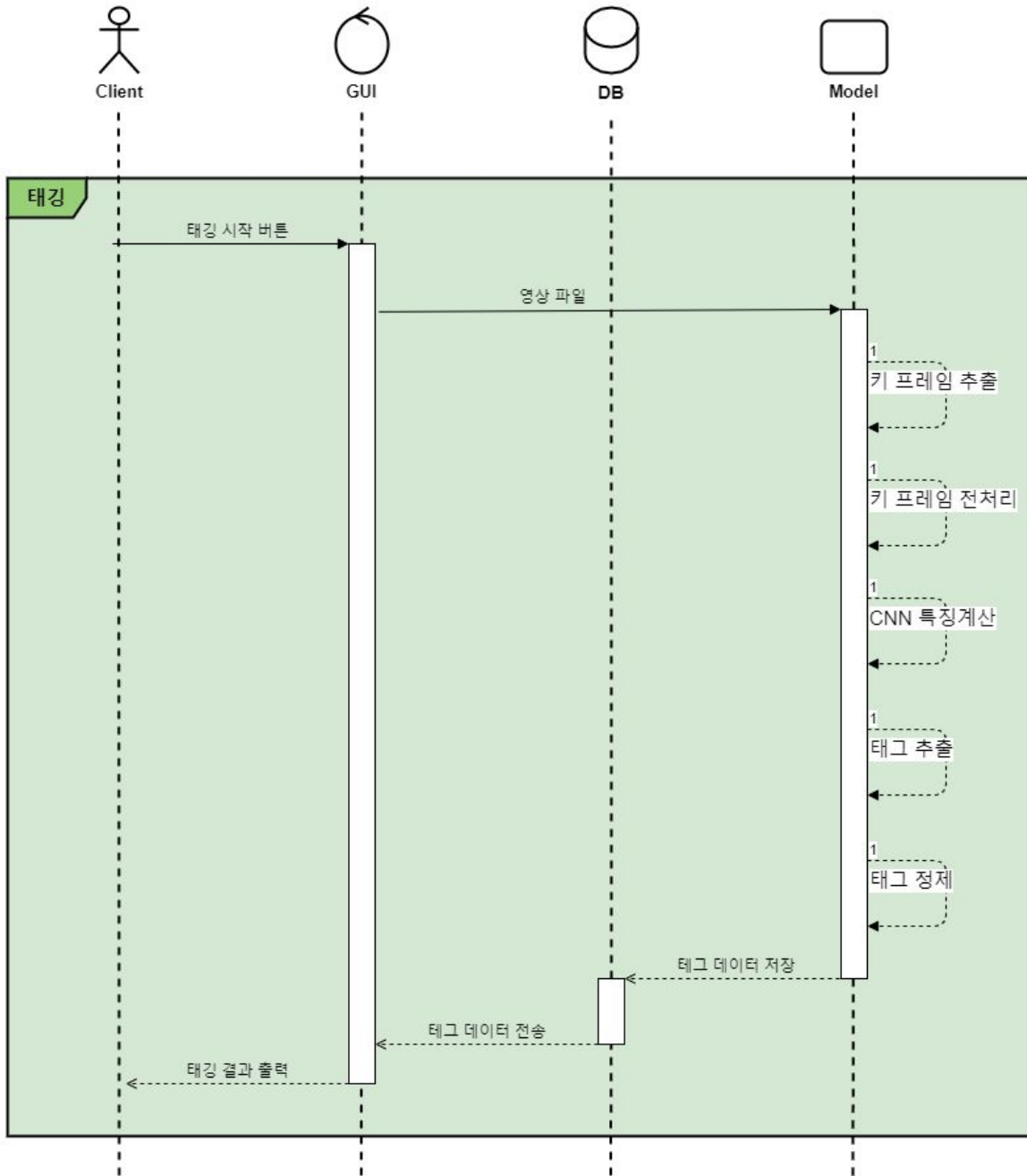
# I. 상위 디자인(High-Level Design)

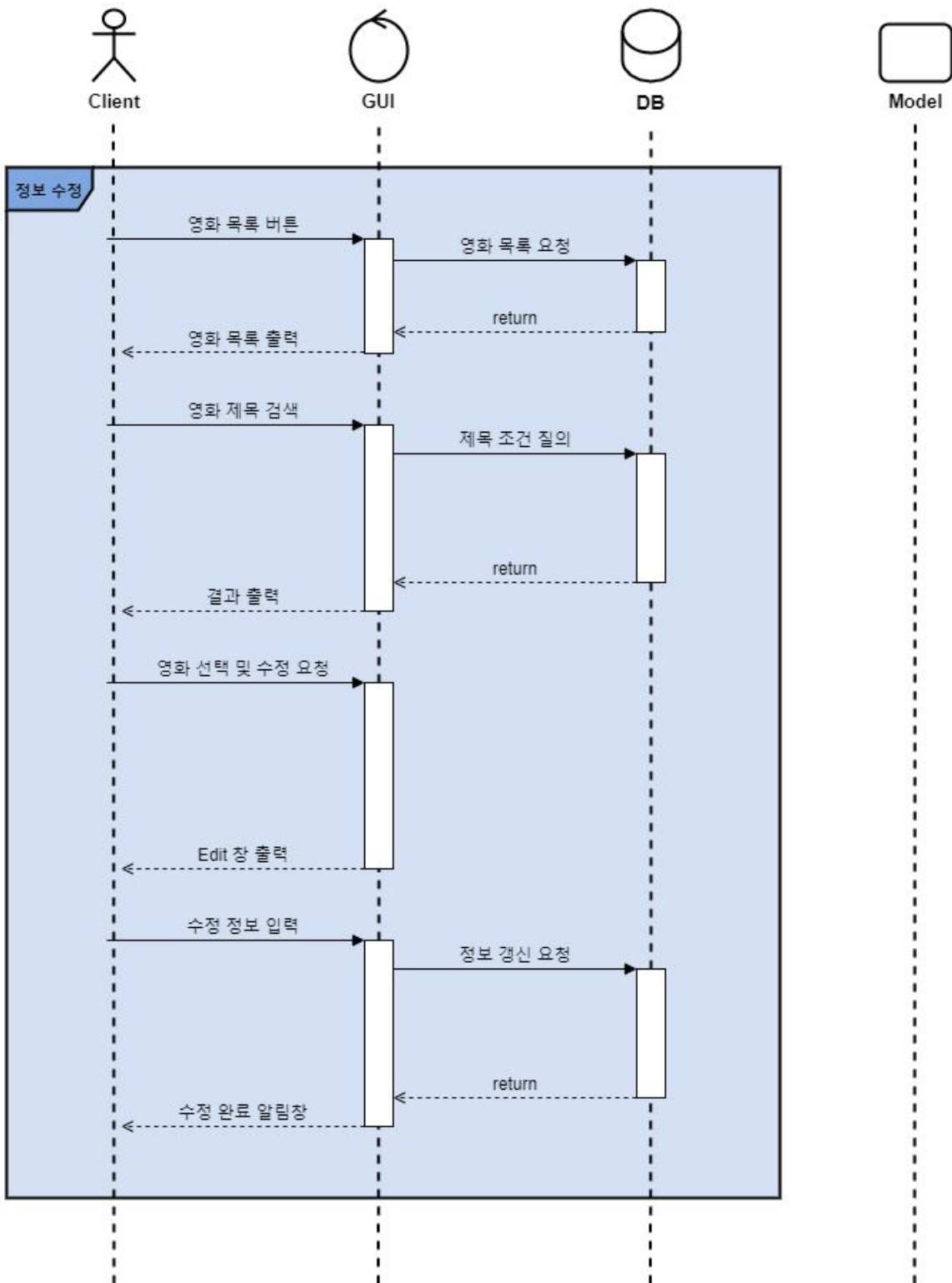
## 1. 아키텍처 설계(Architecture Diagram)

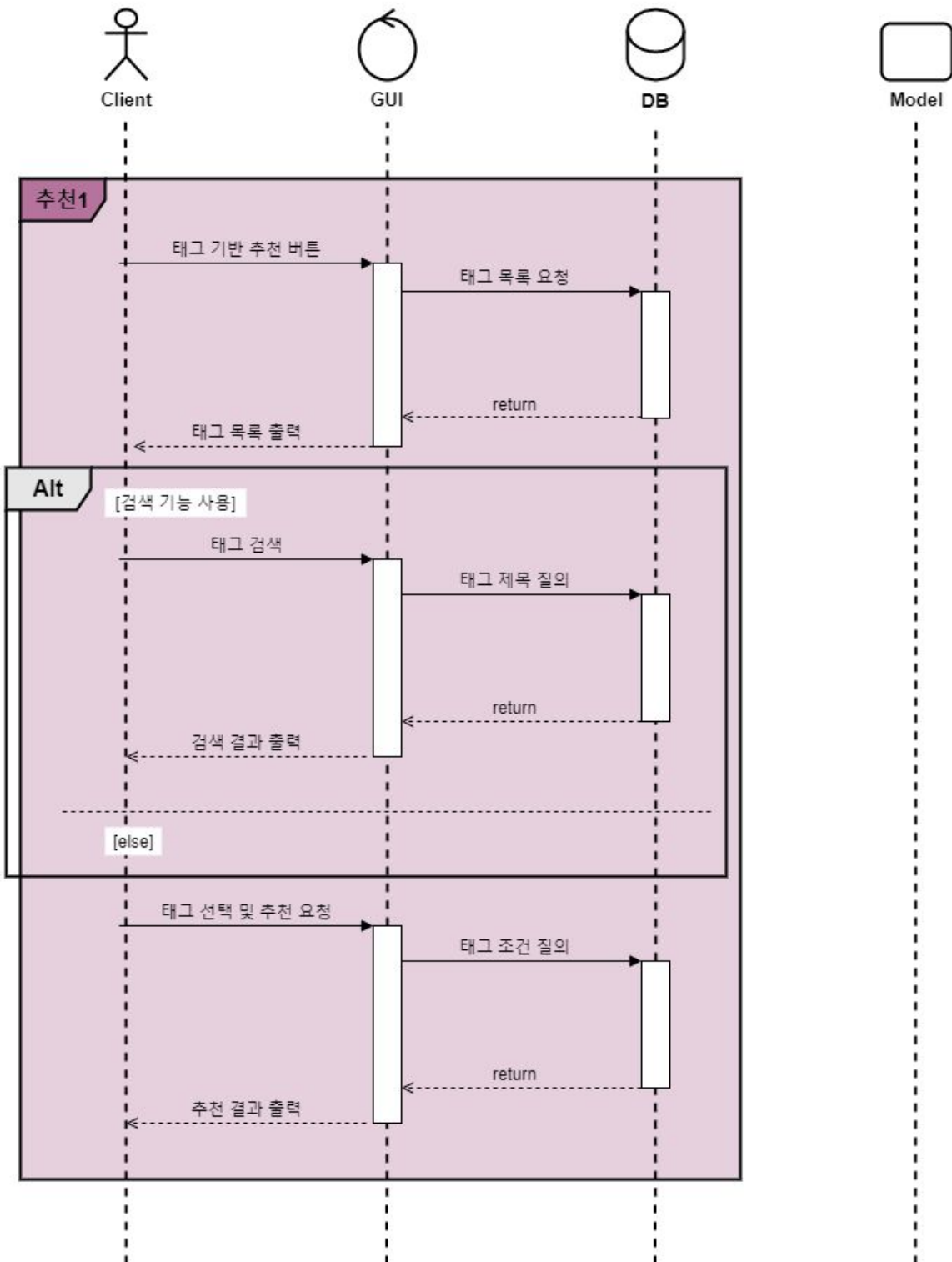


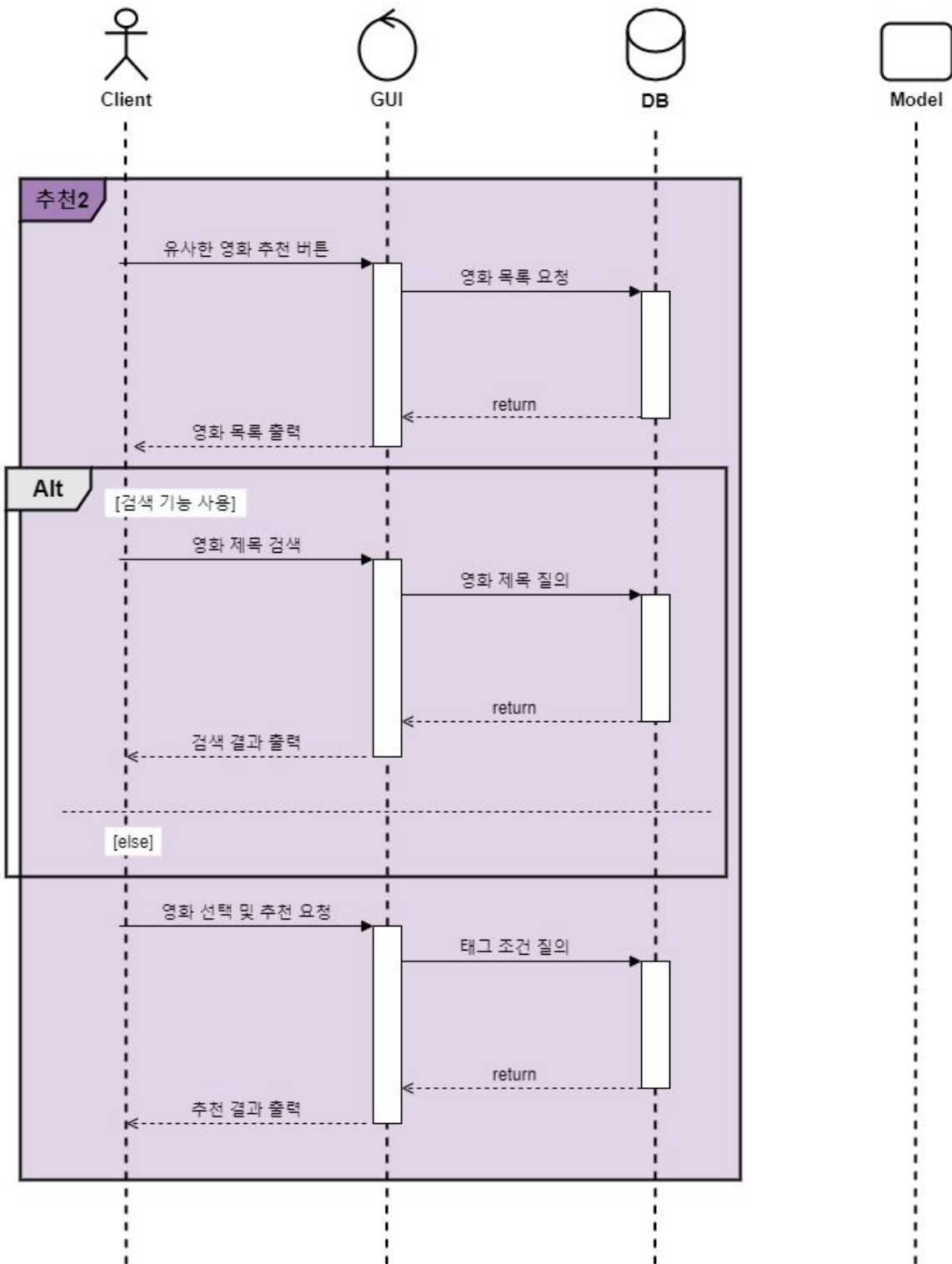
## 2.시스템 시나리오 분석(System Sequence Diagram)







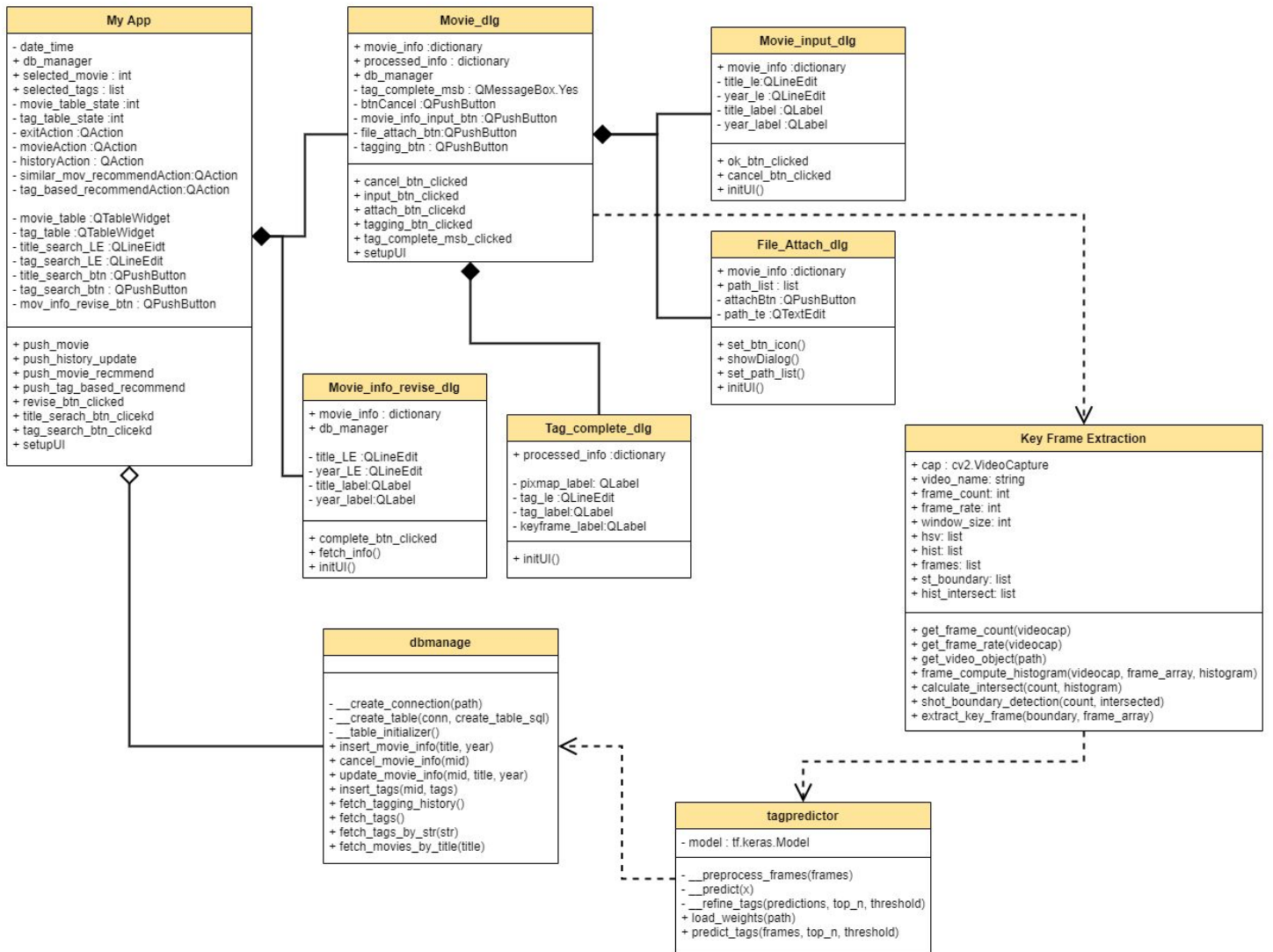






## II. 상세 디자인(Low-Level Design)

### 1. 클래스 다이어그램(Class Diagram)



### III. 추적성 분석표(Traceability Matrix)

Requirements	Pass/Fail Criteria	System Test Case	High-Level Design	Low-Level Design
3.2.a.1	GUI 환경에서 인출력 및 수정, 영상의 전처리와 태깅에 대한 system test case를 80% 이상 통과한다.	1.1.1.a	GUI	My App
		1.1.2.a		push_movie
		1.1.2.b		push_history_update
		1.1.2.c		push_movie_recommnd
3.2.a.2		1.2.1.a		push_tag_based_recommend
		1.2.1.b		revise_btn_clicked
		1.2.1.c		title_serach_btn_clicekd
3.2.a.3		1.3.1.a		tag_search_btn_clicekd
		1.3.1.b		setupUI
		1.3.1.c		Movie_dlg
		1.3.1.d		cancel_btn_clicked
		1.3.2.a		input_btn_clicked
		1.3.3.a		attach_btn_clicekd
		1.3.4.a		tagging_btn_clicked
		1.3.5.a		tag_complete_msb_clicked
		1.3.5.b		setupUI
	1.3.6.a	Movie_input_dlg		
3.2.b.1	2.1.1.a	ok_btn_clicked		
	2.1.2.a	cancel_btn_clicked		
	2.1.2.b	initUI()		
	2.1.3.a	File_Attach_dlg		
3.2.b.2	2.1.3.b	set_btn_icon()		
	2.1.3.c	showDialog()		
	2.1.3.d	set_path_list()		
	2.2.1.a	initUI()		
3.2.c.1	2.2.1.b	Tag_complete_dlg		
	2.3.1.a	initUI()		
	2.3.2.a	Movie_info_revise_dlg		
	2.3.3.a	complete_btn_clicked		
3.2.c.2	3.1.1.a	fetch_info()		
	3.1.1.b	initUI()		
	3.1.2.a	Key Frame Extraction		
	3.1.2.b	get_frame_count(videocap)		
3.2.d.1	3.1.2.c	get_frame_rate(videocap)		
	3.1.3.a	get_video_object(path)		
	3.1.3.b	frame_compute_histogram(videocap, frame_array, histogram)		
	3.1.3.c	calculate_intersect(count, histogram)		
	3.1.4.a	shot_boundary_detection(count, intersected)		
	3.1.4.b	extract_key_frame(boundary, frame_array)		
	3.1.4.c	tagpredictor		
	3.2.1.a	__preprocess_frames(frames)		
3.2.d.2	3.2.1.b	__predict(x)		
	4.1.1.a	__refine_tags(predictions, top_n, threshold)		
	4.1.2.a	load_weights(path)		
	4.1.2.b	predict_tags(frames, top_n, threshold)		
3.2.d.1	4.1.2.c	dbmanage		
	4.1.2.d	__create_connection(path)		
	4.1.2.e	__create_table(conn, create_table_sql)		
	4.1.3.a	__table_initializer()		
	4.1.3.b	insert_movie_info(title, year)		
	4.1.3.c	cancel_movie_info(mid)		
	4.1.4.a	update_movie_info(mid, title, year)		
	4.1.4.b	insert_tags(mid, tags)		
	4.2.1.a	fetch_tagging_history()		
	4.2.1.b	fetch_tags()		
3.2.d.2	4.2.1.a	fetch_tags_by_str(str)		
	4.2.1.b	fetch_tags_by_title(title)		
	4.2.1.b	fetch_movies_by_title(title)		