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alias T="Terminal" alias P="Main program (in app.py)" alias C="AlbumRepository class (in lib/album_repository.py)" alias D= "DatabaseConnection" alias PD="Postgres database" T->P: "Runs 9 10 python app.py" P->D: "Opens DatabaseConnection" 13 D->D: "Opens DatabaseConnection using PG 14 and stores connection" 15 16 P->C: "Call #create 17 method" P->C: "Call #delete 19 method" 20 P->C: "Call #all 21 method" 22 P->C: "Call #find 23 method" 24 25 26 C->D: "Sends SQL query by calling execute method 27 on DatabaseConnection" 28 29 D->PD: "Sends query to database via the 30 open DatabaseConnection" 31 32 D->PD: "#create 33 creates new record in the Album table" 34 D->PD: "#delete 35 removes selected record in the Album table" 36 37 PD->D: "#all returns a list of dictionaries, one for each row of the Albums table" PD->D: "#find returns a list of items based on search, from the Albums table" 40 41 42 D->C: "#all returns 43 a list of dictionaries, one for each row of the Albums table" 44 D->C:"#find returns 45 a list of items based on search, from the Albums table" 46 C->C: "'Loops' through list and creates a Album object for every 48 49 C->P: "Returns a list of Album objects" 50 P->T: "Prints list of Albums to terminal" 51

Main program AlbumRepository class Terminal DatabaseConnection Postgres database (in lib/album_repository.py) (in app.py) Runs python app.py Opens DatabaseConnection Opens DatabaseConnection using PG and stores connection Call #create method Call #delete method Call #all method Call #find method Sends SQL query by calling execute method on DatabaseConnection Sends query to database via the open DatabaseConnection #create creates new record in the Album table #delete removes selected record in the Album table #all returns a list of dictionaries, one for each row of the Albums table a list of items based on search, from the Albums table a list of dictionaries, one for each row of the Albums table #find returns a list of items based on search, from the Albums table 'Loops' through list and creates a Album object for every row Returns a list of Album objects Prints list of Albums to terminal