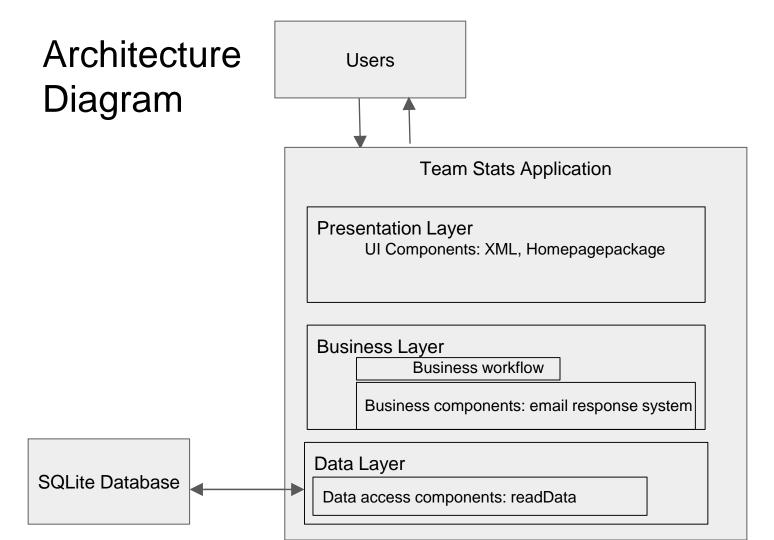
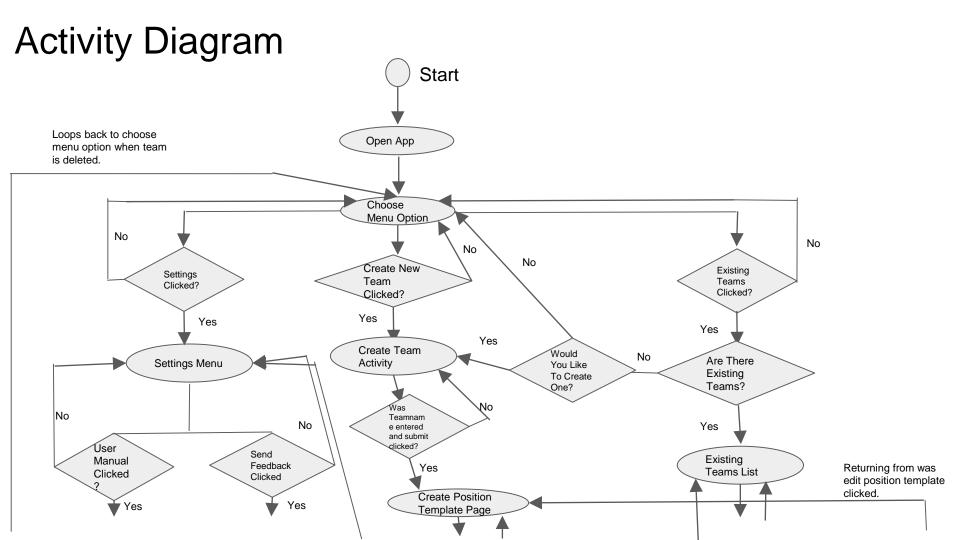
# Design Model

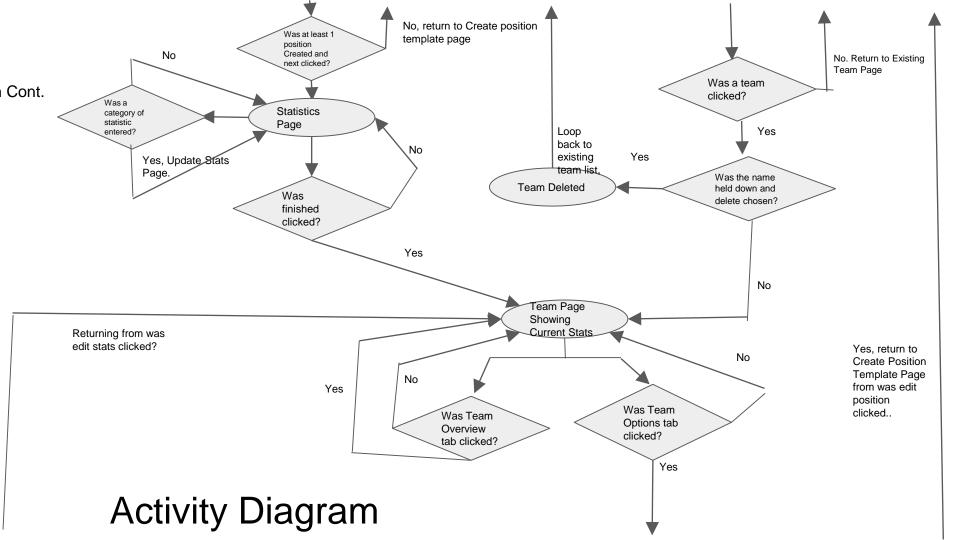
Trevor DeBardeleben, Cole Gluth, Matthew Larroquette, Christopher "Logan" Serio

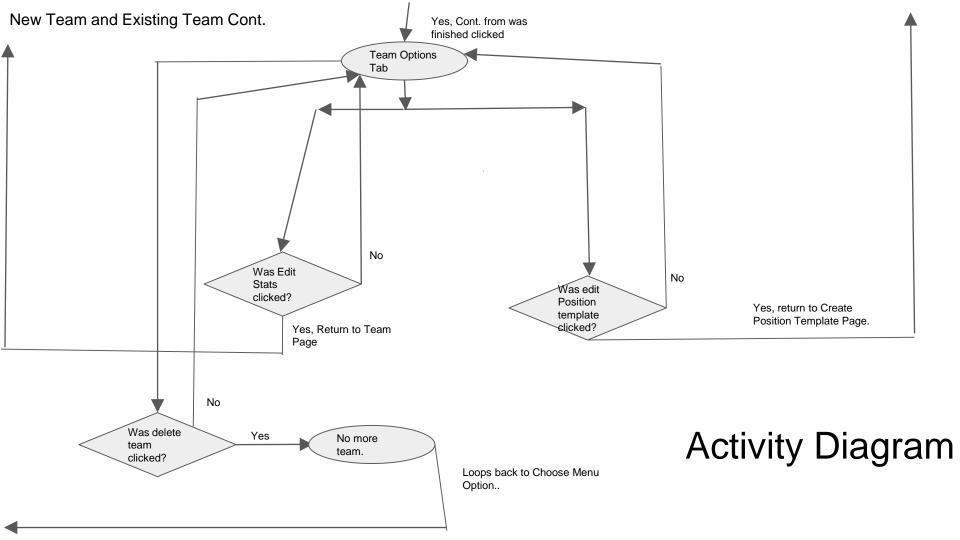


### **Activity Diagram Notes**

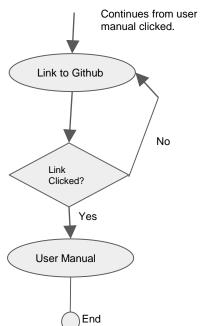
- Spans the next four pages
- First page is the beginning of our app
- The second page follows the CreateTeamActivity and ListTeamsActivity lines.
   The Create New Team flow picks up after the Positions are Created and the Existing Teams is picked up after a team is clicked.
- The third page follows after Team Options is clicked from the teampage
- The final page follows after Settings is clicked from the homepage

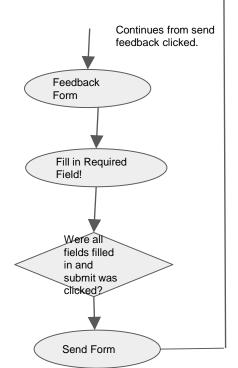






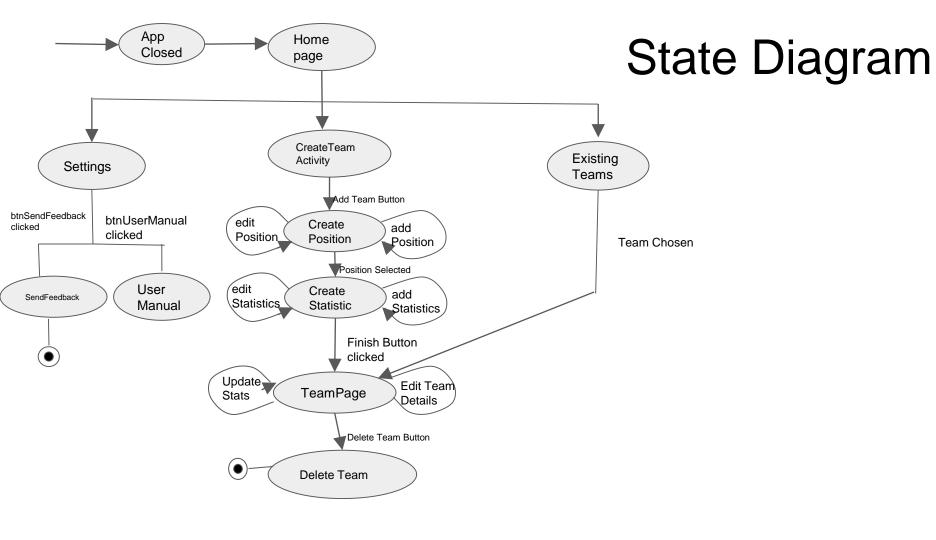
#### Feedback Cont ...





## **Activity Diagram**

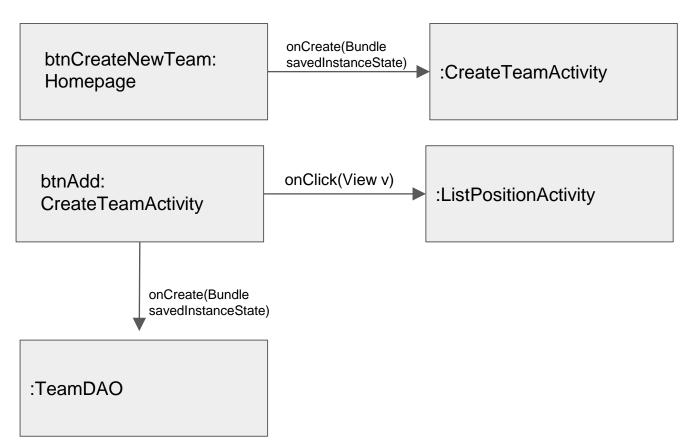
Loops back to Settings

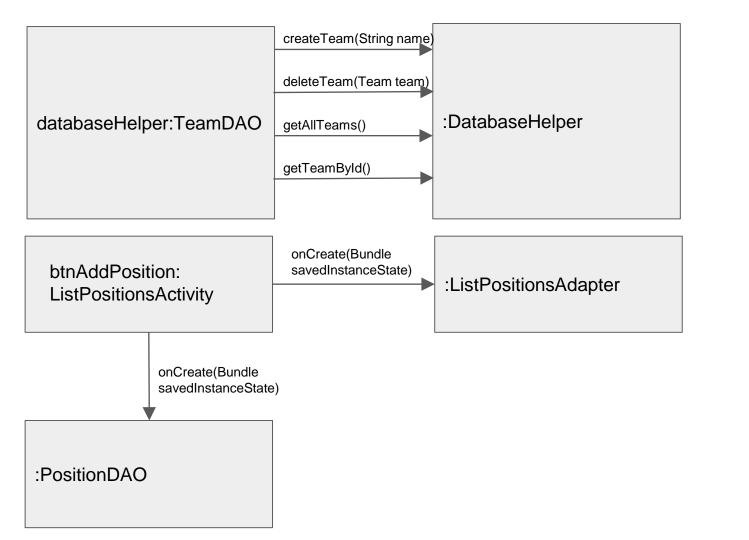


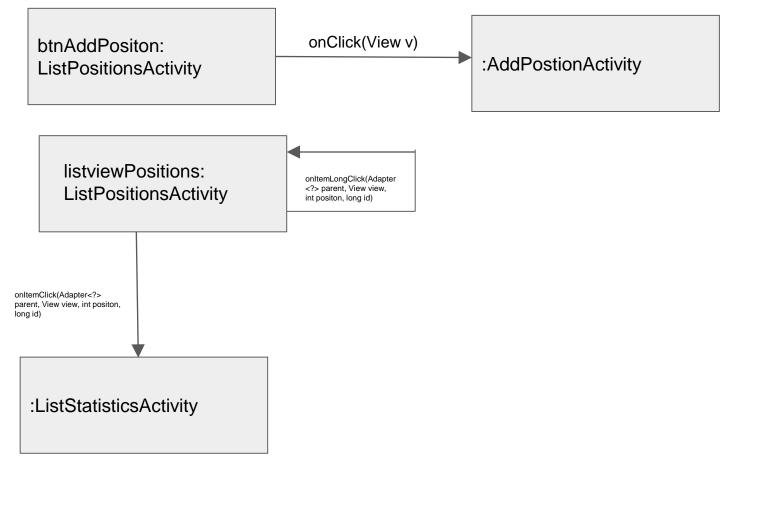
### Collaboration Diagram Notes

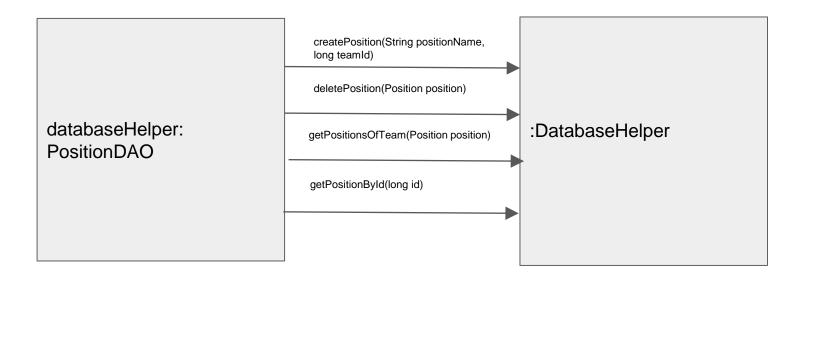
- Spans the next twelve pages
- Please note that multiple collaborations are on a slide. Only boxes that are connected show a collaboration. In some instances there are multiple collaborations per page.

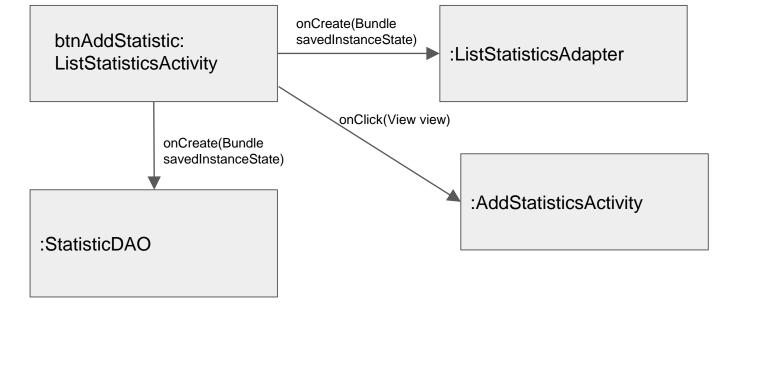
### Collaboration Diagrams

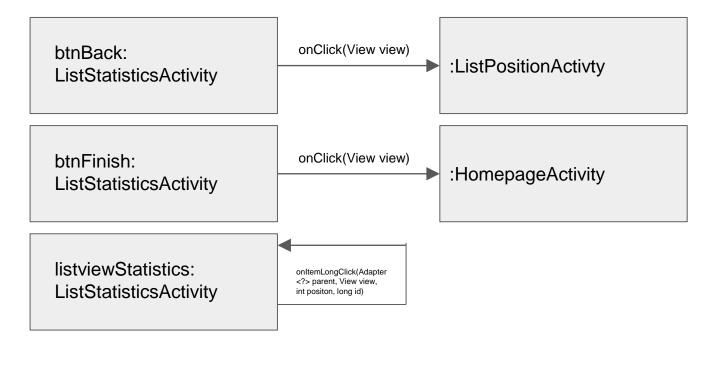


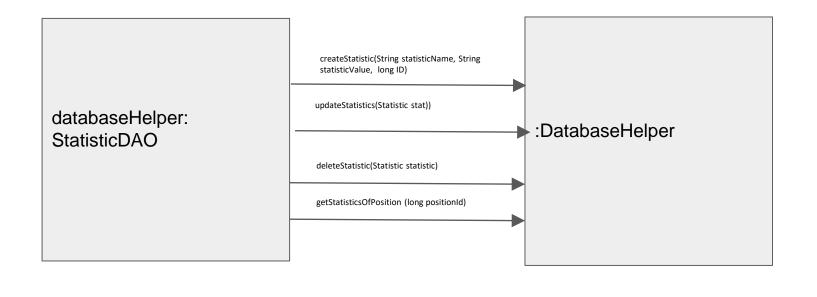


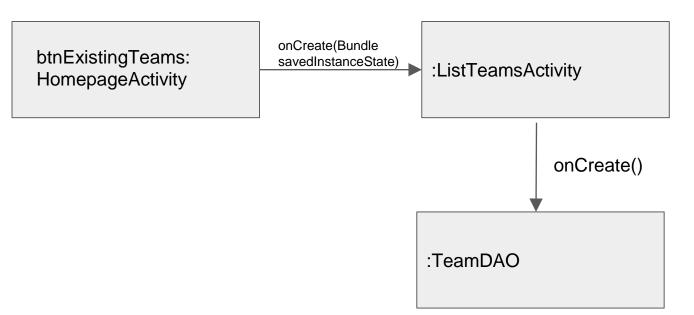


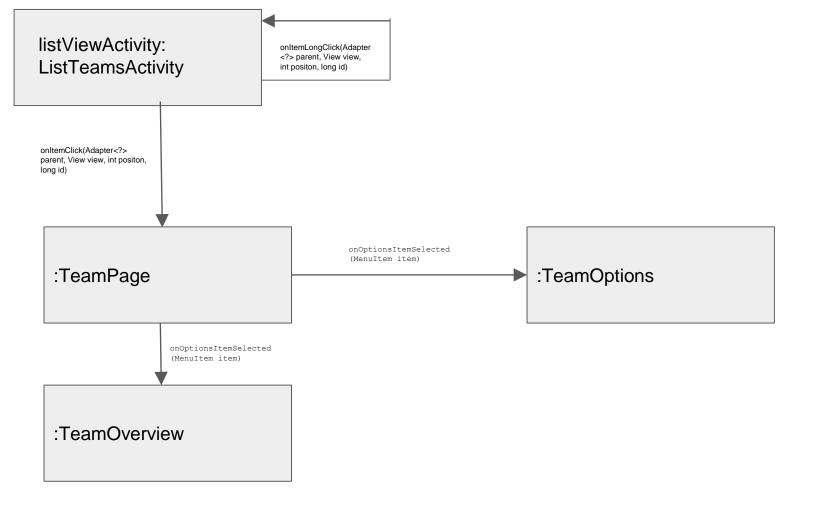


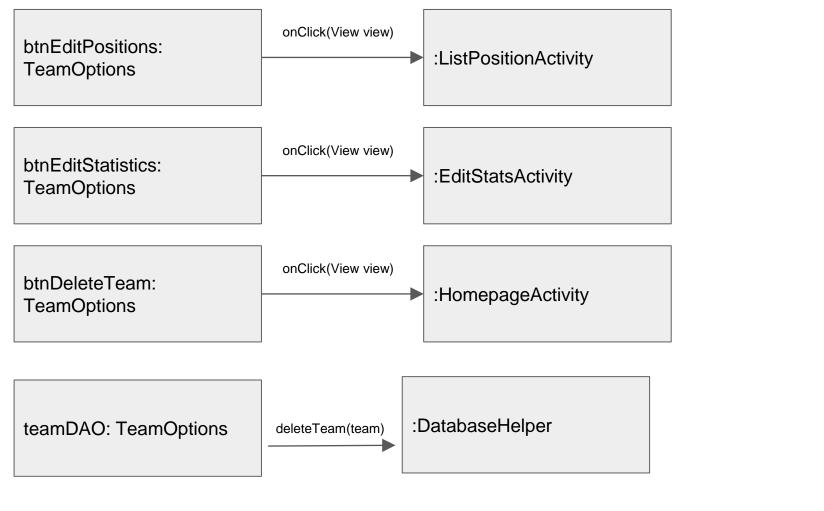


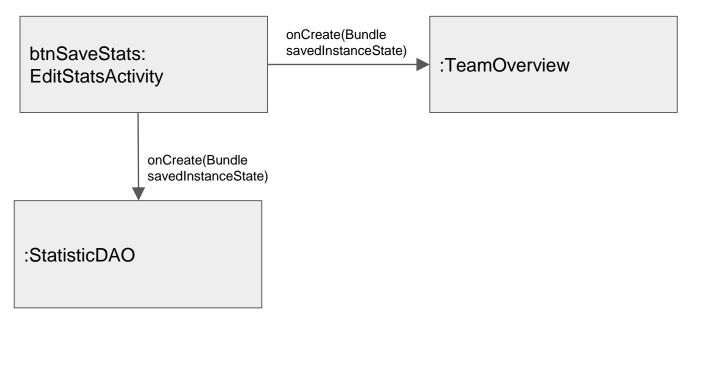




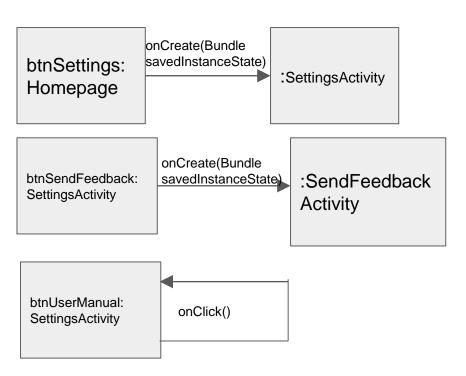








### **End of Collaboration Diagrams**



### Object Diagram Notes

- Spans the next fifteen pages
- Please note there are multiple object diagrams per page. If there is no arrow connecting boxes they are not objects of one another.

#### **Object Diagram**

onCreate(Bundle savedInstanceState)

btnCreateNewTeam:
HomepageActivity

+ btnCreateNewTeam : Button

onCreate(Bundle savedInstanceState)

:CreateTeamActivity

#### CreateTeamActivity

+ btnAdd: Button

+ TeamDAO: teamDao + txTeamName : EditText

onCreate(Bundle savedInstanceState) onClick (View v) onDestroy()

> onCreate(Bundle savedInstanceState)

#### :TeamDAO

- + TAG : String
- + database : SQLiteDatabase
- + databasebHelper : DatabaseHelper
- + context : Context
- + allColumns : String []

TeamDAO (Context context) open() close() createTeam(String name) DeleteTeam(Team team) getAllTeams() getTeamById(long id) cursorToTeam(Cursor cursor) cursorToTeamByID(Cursor cursor)

#### onClick(View v)

#### :ListPositionsActivity

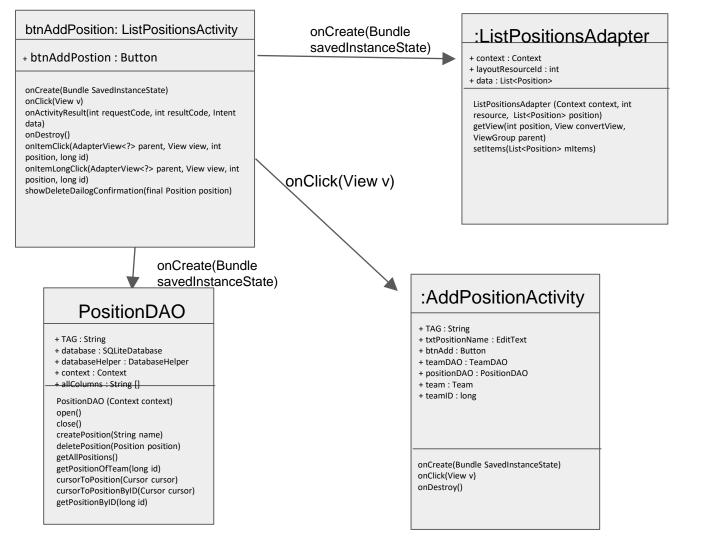
- + TAG: String
- + REQUEST CODE ADD POSITION : int
- + REQUEST CODE STATS LIST: int
- + EXTRA ADDED POSITION: String
- + EXTRA\_SELECTED\_TEAM\_ID: String
- + listviewPositions : ListView
- + txtEmptyListPositions : TextView
- + btnAddPostion: Button
- + adapter : ListPositionAdapter + listAdapter : List<Position>
- + positionDAO : PositionDAO
- + teamID : long + team : Team

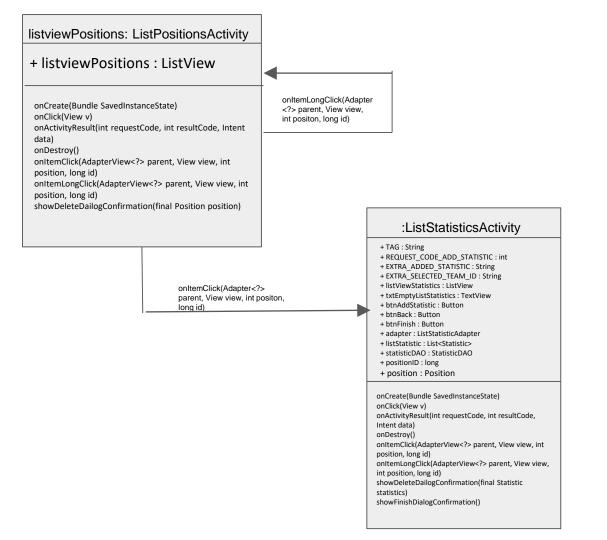
onCreate(Bundle SavedInstanceState) onClick(View v) onActivityResult(int requestCode, int resultCode, Intent data) onDestroy() onItemClick(AdapterView<?> parent, View view, int

position, long id) onItemLongClick(AdapterView<?> parent, View view, int

position, long id) showDeleteDailogConfirmation(final Position position)

TeamDAO		createTeam(String name)	:DatabaseHelper
TeamDAO (Context context) open() close() createTeam(String name) DeleteTeam(Team team) getAllTeams() getTeamById(long id) cursorToTeam(Cursor cursor) cursorToTeamByID(Cursor cursor)		createTeam(String name)  deleteTeam(Team team)  getAllTeams()  getTeamByld()	+ TAG: String + TABLE_TEAMS: String + COLUMN_TEAM_ID: String + COLUMN_TEAM_NAME: String + TABLE_POSITIONS: String + COLUMN_POSTION_ID: String + COLUMN_POSITION_NAME: String + COLUMN_POSITION_TEAM_ID: String + TABLE_STATISTICS: String + COLUMN_STATISTIC_ID: String + COLUMN_STATISTIC_VALUE: String + SQL_CREATE_TABLE_STATISTICS: String + SQL_CREATE_TABLE_STATISTICS: String + SQL_CREATE_TABLE_TEAMS: String  onCreate(SQLiteDatabase db)  DatabaseHelper(Context context)
			onUpgrade(SQLightDatabase db, int oldVersion, int newVersion)





#### :ListStatisticsAdapter btnAddStatistic:ListStatisticsActivity onCreate(Bundle + context : Context + btnAddStatistic : Button savedInstanceState) + layoutResourceId: int + data : List<Statistic> ListStatisticsAdapter (Context context, int resource, onCreate(Bundle SavedInstanceState) onClick(View v) List<Statistic> statistic) onActivityResult(int requestCode, int resultCode, getView(int index, View convertView, ViewGroup parent) Intent data) setItems(List<Statistic> mItems) onDestroy() onItemClick(AdapterView<?> parent, View view, int position, long id) onItemLongClick(AdapterView<?> parent, View view, int position, long id) showDeleteDailogConfirmation(final Statistic statistics) showFinishDialogConfirmation() onClick(View view) onCreate(Bundle :AddStatisticsActivity savedInstanceState) + TAG: String :StatisticDAO + txtStatisticName : EditText + btnAdd: Button + statisticDAO : StatisticDAO + TAG : String + positionDAO : PositionDAO + database : SQLiteDatabase + position : Position + databaseHelper : DatabaseHelper + positionID : long + context : Context + allColumns : String [] onCreate(Bundle SavedInstanceState) StatisticDAO (Context context) onClick(View v) open() onDestroy() close() createStatistic(String statisticName, String statisticValue, long ID) updateStatistics(Statistic stat)) deleteStatistic(Statistic statistic) getAllStatistics()

getStatisticOfPosition(long positionId)
cursorToStatistic(Cursor cursor)

#### btnBack:ListStatisticsActivity

#### + btnBack: Button

onCreate(Bundle SavedInstanceState) onClick(View v) onActivityResult(int requestCode, int resultCode, Intent data) onDestroy() onItemClick(AdapterView<?> parent, View view, int position, long id) onItemLongClick(AdapterView<?> parent, View view, int position, long id) showDeleteDailogConfirmation(final Statistic statistics) showFinishDialogConfirmation()

#### onClick(View view)

#### :ListPositionsActivity

- + TAG : String
- + REQUEST CODE ADD POSITION: int
- + REQUEST CODE STATS LIST: int
- + EXTRA ADDED POSITION: String
- + EXTRA\_SELECTED\_TEAM\_ID : String
- + listviewPositions : ListView
- + txtEmptyListPositions : TextView
- + btnAddPostion: Button
- + adapter : ListPositionAdapter
- + listAdapter : List<Position>
- + positionDAO : PositionDAO
- + teamID : long
- + team : Team

#### onCreate(Bundle SavedInstanceState) onClick(View v)

onActivityResult(int requestCode, int resultCode, Intent

data)

onDestroy() onItemClick(AdapterView<?> parent, View view, int

position, long id) onItemLongClick(AdapterView<?> parent, View view, int position, long id) showDeleteDailogConfirmation(final Position position)

#### btnFinish:ListStatisticsActivity onClick(View view) + btnFinish: Button onCreate(Bundle SavedInstanceState) onClick(View v) onActivityResult(int requestCode, int resultCode, Intent data) onDestroy() onItemClick(AdapterView<?> parent, View view, int position, long id) onItemLongClick(AdapterView<?> parent, View view, int position, long id) showDeleteDailogConfirmation(final Statistic statistics) showFinishDialogConfirmation() listviewStatistics:ListStatisticsActivity + listviewStatistics: ListView

onItemLongClick(Adapter

<?> parent, View view,

int positon, long id)

onCreate(Bundle SavedInstanceState)

onActivityResult(int requestCode, int resultCode,

onItemClick(AdapterView<?> parent, View view, int

onItemLongClick(AdapterView<?> parent, View view,

showDeleteDailogConfirmation(final Statistic

onClick(View v)

position, long id)

int position, long id)

showFinishDialogConfirmation()

Intent data) onDestroy()

statistics)

btnCreateNewTeam: HomepageActivity

 $+\ btnCreateNewTeam: Button$ 

onCreate(Bundle savedInstanceState)

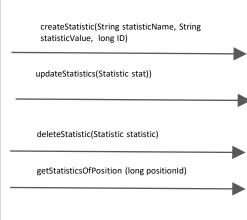
#### databaseHelper:StatisticDAO

+ databaseHelper : DatabaseHelper

StatisticDAO (Context context)
open()
close()
createStatistic(String statisticName, String
statisticValue, long ID)
updateStatistics(Statistic stat))
deleteStatistic(Statistic statistic)
getAllStatistics()

getStatisticOfPosition(long positionId)

cursorToStatistic(Cursor cursor)



#### :DatabaseHelper

- + TAG : String
- + TABLE TEAMS: String
- + COLUMN\_TEAM\_ID : String
- + COLUMN\_TEAM\_NAME: String
- + TABLE\_POSITIONS : String + COLUMN POSTION ID : String
- + COLUMN POSITION NAME : String
- + COLUMN POSITION TEAM ID: String
- + TABLE\_STATISTICS : String
- + COLUMN\_STATISTIC\_ID : String + COLUMN STATISTIC NAME : String
- + COLUMN STATISTIC VALUE: String
- + COLUMN STATISTIC VALUE : String
- + DATABASE NAME : String
- + DATABASE VERSION : int
- + SQL CREATE TABLE STATISTICS: String
- + SQL\_CREATE\_TABLE\_POSITIONS: String
- + SQL\_CREATE\_TABLE\_TEAMS : String

onCreate(SQLiteDatabase db)

DatabaseHelper(Context context) onUpgrade(SQLightDatabase db, int oldVersion, int newVersion)

### btnExistingTeams:HomepageActivity

- + btnCreateNewTeam : Button
- + btnExistingTeam : Button

+ btnSettings : Button

onCreate(Bundle savedInstanceState)

onCreate(Bundle savedInstanceState)

#### :ListTeamsActivity

- + listViewTeams : ListView
- + TAG : String
- + REQUEST\_CODE\_ADD\_TEAM : int
- + EXTRA\_ADDED\_TEAM : String + txtEmptyListTeams : TextView
- + adapter : ListTeamsAdapter
- + listTeams : List <Team> + teamDao : TeamDAO

onCreate(Bundle savedInstanceState)

onActivityResult(int requestCode, int resultCode, Intent data)
onDestroy()
onItemClick(AdapterView<?> parent, View view, int position, long id)

onitemclick(AdapterView<?> parent, View view, int position, long id) onltemLongClick(AdapterView<?> parent, View view, int position, long id) showDeleteDailogConfirmation(Team clickedTeam)

#### :TeamDAO

- + TAG : String
- + database : SQLiteDatabase
- + databasebHelper : DatabaseHelper + context : Context
- + allColumns : String []

TeamDAO (Context context)
open()
close()
createTeam(String name)
DeleteTeam(Team team)
getAllTeams()
getTeamByld(long id)

cursorToTeam(Cursor cursor)
cursorToTeamByID(Cursor cursor)

### listViewTeams: ListTeamsActivity

+ listViewTeams : ListView

onCreate(Bundle savedInstanceState)
onActivityResult(int requestCode, int resultCode, Intent data)
onDestroy()
onItemClick(AdapterView<?> parent, View view, int position, long id)
onItemLongClick(AdapterView<?> parent, View view, int position, long id)

showDeleteDailogConfirmation(Team clickedTeam)

onOptionsItemSelected (MenuItem item)

#### :TeamOverview

- + positionDAO : PositionDAO+ statisticDAO : StatisticDAO+ posList : ArrayList<Position>
- + statList : ArrayList<Statistic>

onCreateView(LayoutInflater inflater, ViewGroup container, Bundle SavedInstanceState)

onItemClick(Adapter<?> parent, View view, int positon, long id)

#### :TeamPage

- + SectionsPagerAdapter : SectionsPagerActivity
- + ViewPager : ViewPager

onCreate (Bundle savedInstanceState) onCreateOptionsMenu(Menu menu) onOptionsItemSelected(MenuItem item)

onOptionsItemSelected
(MenuItem item)

#### :TeamOptions

- + btnEditPositions : Button + btnEditStatistics: : Button + btnDeleteTeam : Button
- + REQUEST\_CODE\_EDIT\_POSITION : int
- + teamDAO : TeamDAO

 $on Create View (Layout Inflater inflater, View Group container, Bundle Saved Instance State) \\ show Delete Dialog Confirmation (final Team team)$ 

#### btnEditPositions:TeamOptions

+ btnEditPositions : Button

onClick(View view)

 $on Create View (Layout Inflater inflater, View Group container, Bundle Saved Instance State) \\ show Delete Dialog Confirmation (final Team team)$ 

#### :ListPositionsActivity

- + TAG : String
- + REQUEST\_CODE\_ADD\_POSITION : int
- $+ \ \mathsf{REQUEST\_CODE\_STATS\_LIST}: int$
- + EXTRA ADDED POSITION : String
- + EXTRA\_SELECTED\_TEAM\_ID : String
- + listviewPositions : ListView
- + txtEmptyListPositions : TextView
- + btnAddPostion : Button + adapter : ListPositionAdapter
- + listAdapter : List<Position>
- + positionDAO : PositionDAO
- + teamID : long
- + team : Team

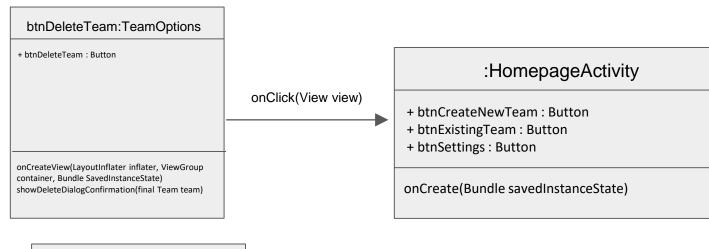
#### onCreate(Bundle SavedInstanceState) onClick(View v)

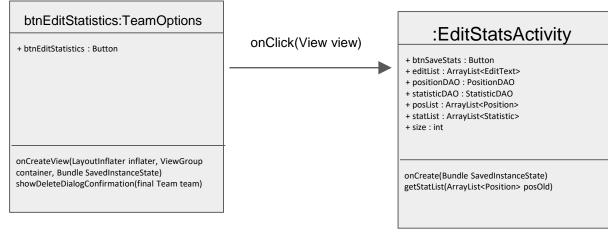
onActivityResult(int requestCode, int resultCode, Intent

data)

onDestroy()
onItemClick(AdapterView<?> parent, View view, int

position, long id)
onItemLongClick(AdapterView<?> parent, View view, int
position, long id)
showDeleteDailogConfirmation(final Position position)





#### teamDAO:TeamOptions

+ teamDAO : TeamDAO

deleteTeam(team)

onCreateView(LayoutInflater inflater, ViewGroup container, Bundle SavedInstanceState) showDeleteDialogConfirmation(final Team team)

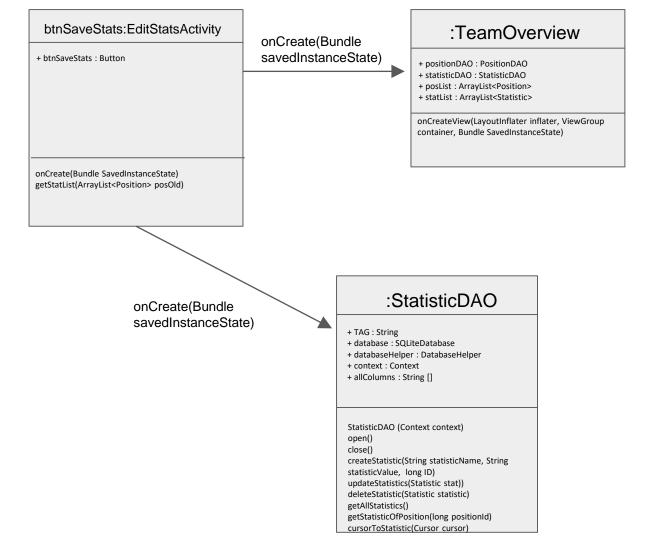
#### :DatabaseHelper

- + TAG : String
- + TABLE TEAMS: String
- + COLUMN TEAM ID: String
- + COLUMN TEAM NAME: String
- + TABLE POSITIONS: String
- + COLUMN POSTION ID: String
- + COLUMN POSITION NAME : String
- + COLUMN POSITION TEAM ID: String
- + TABLE STATISTICS: String
- + COLUMN STATISTIC ID: String
- + COLUMN\_STATISTIC\_NAME : String
- + COLUMN\_STATISTIC\_VALUE: String
- $+ \\ COLUMN\_STATISTIC\_VALUE: String$
- + DATABASE\_NAME : String
- + DATABASE VERSION : int
- + SQL\_CREATE\_TABLE\_STATISTICS : String
- + SQL CREATE TABLE POSITIONS: String
- + SQL\_CREATE\_TABLE\_TEAMS : String

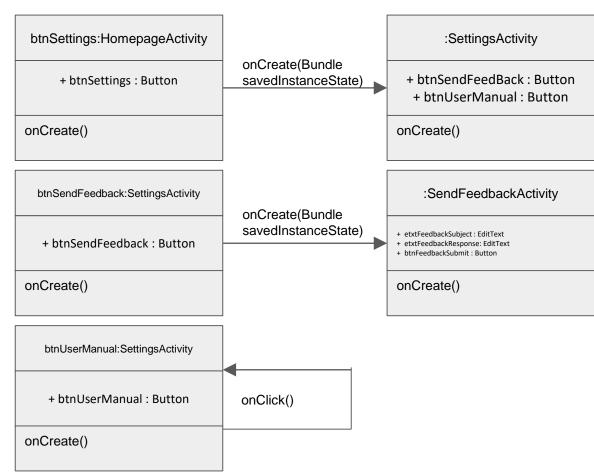
onCreate(SQLiteDatabase db)

DatabaseHelper(Context context)

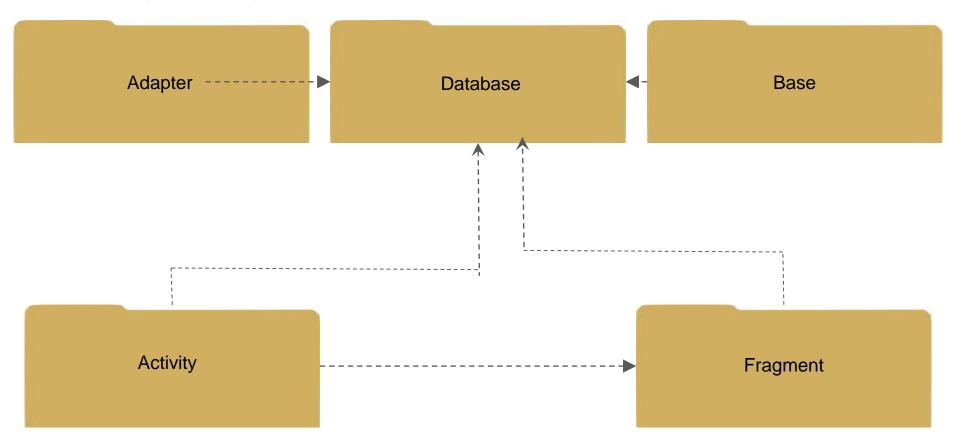
onUpgrade(SQLightDatabase db, int oldVersion, int newVersion)



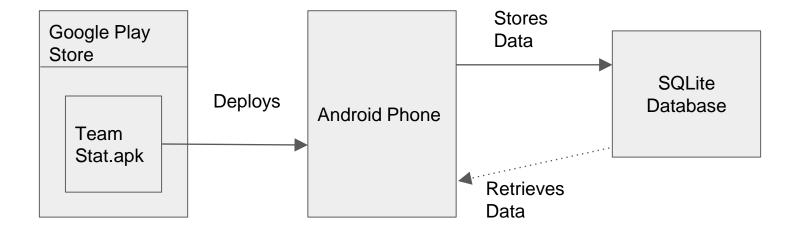
#### End of Object Diagram



## Package Diagram



### Deployment Diagram



### Component Diagram Notes

- Spans the next two pages
- Please note there are multiple component diagrams per page. If there is no line connecting one of the boxes in a set of boxes, they are not related.

### Component Diagram

