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# Upcycling App System Design Project

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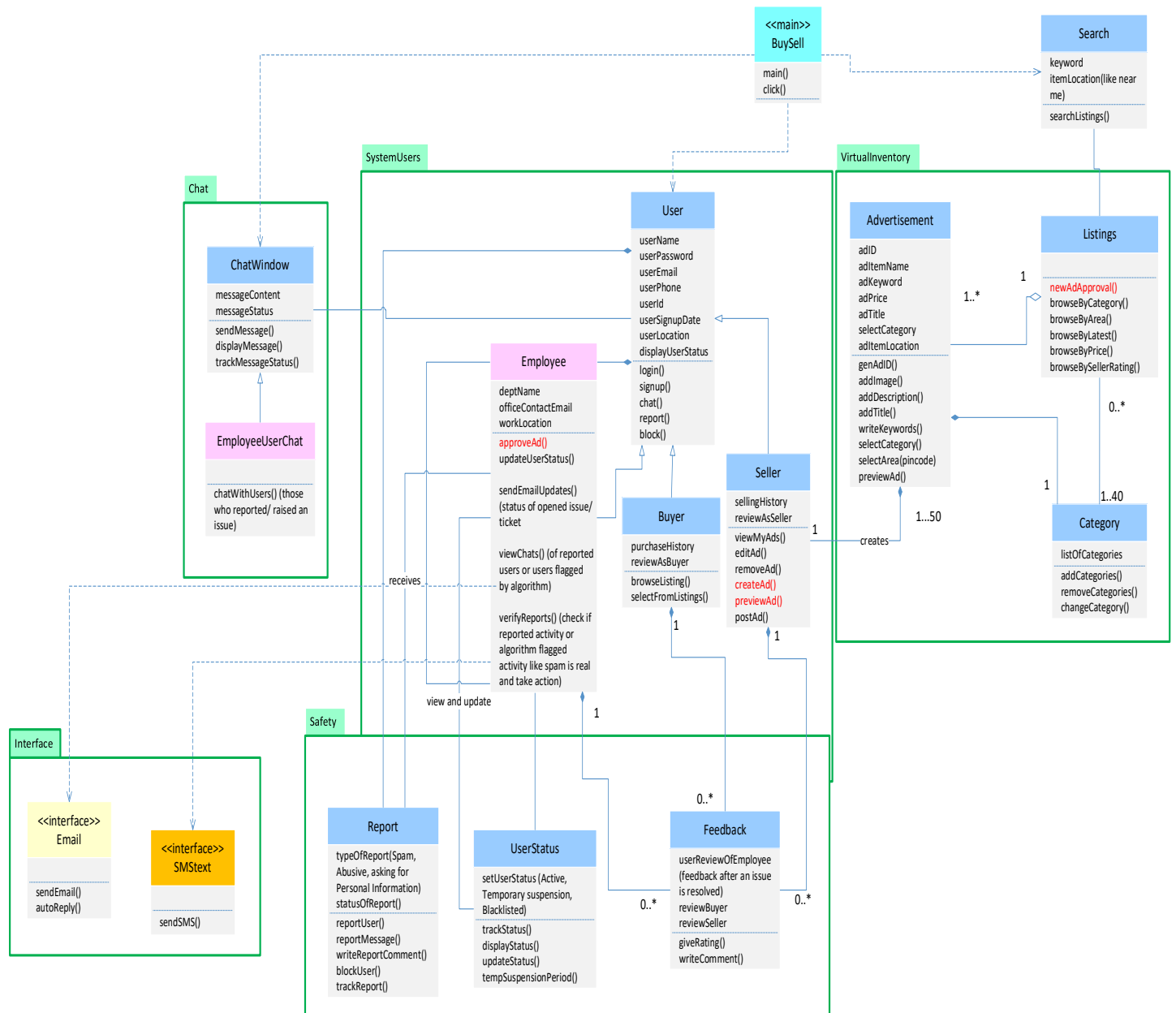
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## MISSION STATEMENT

*BestPurchase* is an app where you can buy and sell pre-owned objects. Just click a picture, choose a category, and give a small description and your price. It is a community-oriented app and will find customers from around your area, with whom you can safely chat via the app and finalize the deals. If you want to declutter, are on a tight budget, need some extra cash, or want to buy pre-owned to help our environment and reduce wastage, our app is for you. You can choose the categories for which you want recommendations and get notified, so you never miss a deal.

## 6.1 CLASS DIAGRAM FOR *BESTPURCHASE*

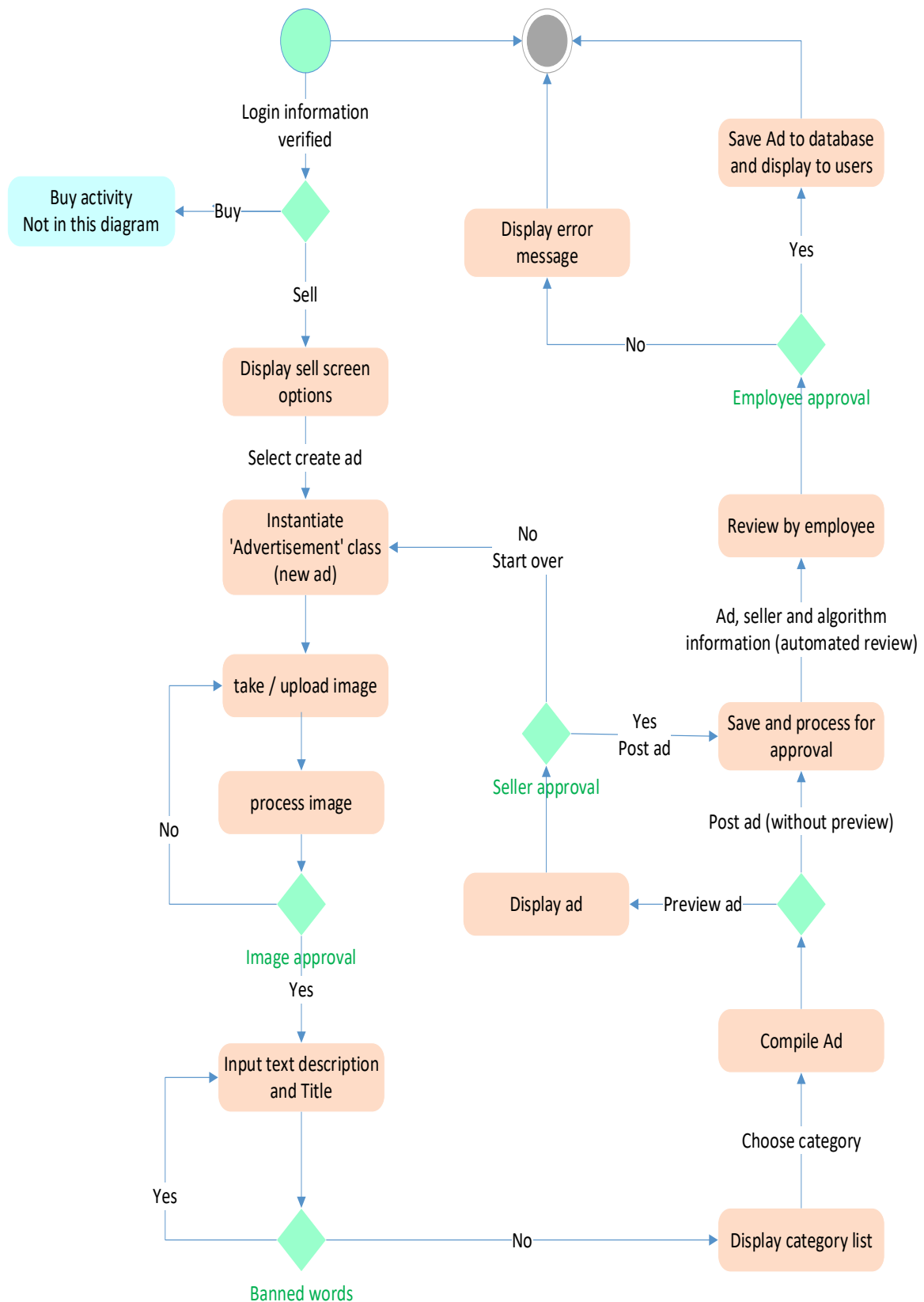
The updated class diagram contains detailed methods which will also be used in our sequence diagram.



## 6.2 ACTIVITY DIAGRAM

The activity diagram, sequence diagram and pseudocode are for the seller function of – create and post ad.

1. User logs in and the information is verified, otherwise Exit.
2. User selects 'Sell' from home display.
3. Seller has options to – create, edit, view (my ads), and post ads, selects Create ad.
4. This creates a new ad in Advertisement class.
5. System asks to – take/upload pic, processes image.
6. If approved, system asks to write Title and description (text).
7. If approved, system displays category list (40 categories), asks to select one.
8. Once done, system will compile the ad and present options to post ad or preview ad (recommended).
9. Once the ad is previewed, the seller can post ad or start over (new ad).
10. Posted ad will go to an employee for approval. Approval will store the ad in the database and make it visible to all users.
11. Disproval will give an error message with the problem; the seller may exit or start again.

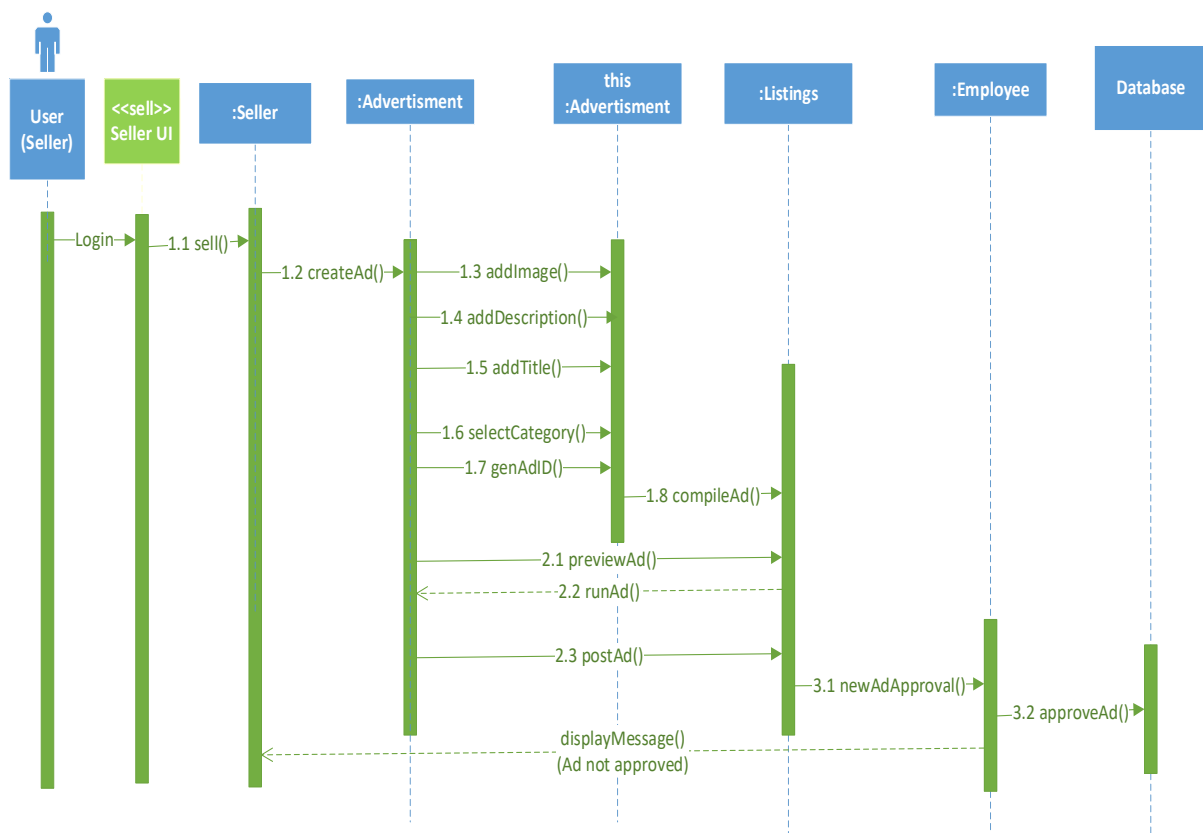


## 6.2.1 FOCUSED SEQUENCE DIAGRAM

The focussed sequence diagram shows the steps for creating and posting an ad by a seller.

There are three major steps –

1. Methods for creating the ad
2. Methods with a compiled (full) ad – preview, post
3. Approval (employee) and store in database, display to users.



## 6.3 PSEUDOCODE

The following pseudocode is for creating and posting an ad from *BestPurchase* app.

IF

    Verification = False // user login credential verification, False – can't login

    Exit

ENDIF

IF Selection = Sell // User selects 'SELL'

    While approved = True // Approval checked sequentially at all steps

        Input image file

        Check approval // picture approved

        Input text file

        Check approval // Description and Title approved

        Input selection

        Check approval // Category selection approved

        Compile NewAd // Compile ad according to system's style

        Return NewAd // Return NewAd

        // we now have a full ad and will proceed to approval steps

    END WHILE

IF NewAd approved by seller // seller previews and approves

    Send to employee for approval // system sends to employee

        IF NewAd approved by Employee // employee approves

            Post and display // Display on app

            Store in database // Store in listings database

        ELSE

            Display error and exit

            // display message with reason for disapproval

ELSEIF NewAd not approved by Seller // If seller disproves

    Display options – start new ad OR exit

ENDIF