**Requirements Design Document**

**Auction Management**

1. **Auction register**
   1. User can register to a property as a bidder before auction.
   2. User can register to a property as a watcher.
   3. User can place his base price while register at least one hour before auction.
   4. User can change base price at least one hour before auction.
   5. Register will stop one hour before auction.
   6. Bidder should finish financial certification.
2. **Auction start**
   1. System will notify all bidders and watchers 10 minutes before auction by email.
   2. The base price of auction will be highest base price of registers.
3. **Place new bid**
   1. Bidders can place new bid which must be 50$ higher than current bid.
   2. System will record bid history.
   3. Bid should be thread safety.
   4. If a new bid placed in 5 minutes to end, the auction will be extended by 2 minutes.
4. **Check bid history**
   1. Owner, bidder and watcher can view all bid history.
   2. After auction, only base price and final price are visible.
5. **Auction close**
   1. While auction end, system will notice all bidders, watchers and owner.
   2. Contact details will be visible between winner and owner.