6SULQJ   &4, 5HSRUW
6RIWZDUH &XUULFXOXP

6HSW`€À` %`fSÐœ$GYDQFHG 2EMHFW 2ULHQWHG WHDQ GU&
6RIWZDUH (QJLQHHPPLWWQWHH H 7KLς FRKHV FPRHXVW VRQ L6QHVSV
DQG UHYLHZHG WKH DVVHVVPHQW ERWWKHFORXHUDULH
DSSHQGL[IRU WKHPHLQGLYHGRXDOVLSOWHPSDUXFHGR WV

   x &6   E\ 'DQLHO 0HMLD
   x &6   E\ 'DQLHO 0HMLD
   x &6   E\ 2VFDU 0RQGUDJRQ
   x &6   E\ <RRQVLN &KHRQ

7KH VWDWHG OHDDQDQWKRXWFRRPHVVRZHUH PHW H[
                                  SRLQWV RI

                        5HYLVLRQ RI &R
                        &6   DQG &6
                        WKH FRPPLWWHH
                        FRPPLWWHH DSS
                        E\ IDFXOW\ DW V

                        &6   -XQLRU 3

       x 8SGDWH RXWFRPH DXHMVIRULEDFWHWSFKQDQFH DQG WHO
          LQWHUYLHZV
            o 'HVFULEH WHFKQLTXHXHL, IRQGDWHFOWOHSSKRQH LQWHUY
       x FRPPXQLFDOOGWZRUQWWHQ
RGEHV DWPSKHOHRVOW]RZLQJ
  SURIHQVLDRFFRXQQHWHZRUVWNDEOLNH ,Q WR H
QJ DQGESORWHVRULQWOEHFSKUVSRVH RI HQKDQ
FRPPXQDEQWOLJRQ QWHLOOQVKLRSEWWRU UHVHDUFK
HV   REVWDRLQULDQJ UQDRGUXPDDWHLRXQOODQG REWDLQ
WLRQV
SURIHVVWRRHDOUUHVWXSHHURFFVLRQDO H[SHUL
SURIHVVHRJQDOLWKXEVWWRRUKRZFDVH VRI
HQW H[SHULHQFHV

&6 $GYDQFHG 2EMHFW 2ULHQWHG 3URJUDPPLQJ
   x 5HPRYH /HYHO D RQ WKRIPHGLV (ESOLWDDLHFQWDRUREQWHG
        DSSURDFK DQG SURFHGXUDO DSSURDFK
           o 0RYH WR &6   3URJUDPPLQJ /DQJXDJHV
   x $GG D QHZ /HYHO RXWFRPH
           o 'HVFULEH WKH GLIDHUULQ IDFHO GHDOQ GHYHOORSPHRQIW ZDU
   x 5HZULWH E LQWRVPX'ELWLJSOHL RXOWFRRPGQVWH VDDQGGXVH F
        PHWKRGV WKDW IROOGRZ O FOHQMHHDOQ SURSRXUHDRW
        DGYDQFHG IHDWXUWDQVFXFKHD FHLSWWKHRQH UKDFQVGOLQJ DQ
           o 'HVLJQ LPSOHPHQW DDQQGGRE MHFFWODVLEQJHRROOOZLQJ
               FRQYHQWLRQV JXLGHOLQHV VW\OHV DQG VWDQ
           o 'HVLJQ DQG LPSOHPDQGQ OLQJFHLSWFORXOGLKQJ XVHU GH
               H[FHSWLRQV DQG KLJK RUGHU IXQFWLRQV

&6   -XQLRU 3URIHVVLRQDO 2ULHQWDWLRQ
7KLV FRXUVH SURYLGHV DQ RYHUYLHZ RQWR WKH&RPSSXKDHVULV 6FLR
DQG WKH ORFDO DQG JOREDO LPSLDFWQ LIDWFLRRPSQSVXVDOLQGJ VRRQFLHQGLV
LW ZDV WDXJKW E\ 'DQLHO Gift of Mite Social, Legal, and Ethical [WERRN
Issues for Computing Technology, SDUD %WKHDVGVLHWLRQ 3HDUVRQ   7KH FRPP
UHFRPPHQGV WR
   x .HHS XS ZLWK WKH JRRG ZRUN ± PHWLVWLQ FWDRQOO\ WKLKFRXUV
        VWXGHQW SDVVLQJ UDWH
   x (ESDQG RQ WKH XVHRURIFRVPPHFXKQQLRFODWWLRRQQDOQG FROODERUD
   x &RQWLQXH KDYLQJ WWXGHROQFRV VXSSRO\WWWODXFWLRS$QDO

&6 $GYDQFHG 2EMHFW 2ULHQWHG 3URJUDPPLQJ
7KLV FRXUVH SURYLGHV LQ GHSWKKRJH[SDPVPXLLUQQHJ VSRRUWDOKGHLJRPEML, QFW
LW ZDV WDXJKMLVWDE\7'HOHQ UHHOOXOLHOObject-OrientedAnalysis ZDV
Design, and Implementation: An Integrated Approach, %UDKPD 'DWKDQ 6DUQDWK
5DPQDWK 6SULQJHU 8QWZKHFURPPLWWHVH3HUHVVFRPPHQGV WR

        .HHS XS ZLWK WKHWVUQJRRGZRUNWKPHHFRXUVHV RXWFRPHV
        &RQWLQXH PRQLWRULQJ WKH IDLOXUHYLRXWHURXQG LW ZDV
        &RQVLGHU XVLQJHDOSSORQMHDO\SEURDRHFKHOQ DW KHPHFRXHUV
        ORQJ SURMHFW WKDW EXLOGV XSRQ WKLV FRXUVH

&6   6RIWZDUH (QJLQHHULQJ ,,

7KLV FRXUVH LV WKH DHFZRRGHVHPPHWUUHFDOVZKRQH FWXGHQWV

DQG LPSOHPHQW D UHDO ZRUOG DSSOLFDWLRQWLSZDLVLWHGXLQW

<RRQVLN &KKRXUH 7GHWUHEV (Essential of Software Engineering) 7VXL 2

.DUDP DQG %G(%LHW-ORROV   %DUWHWW Designing LQJ   DQG

Object-Oriented Software 5   :LUIV %RRFN QG:LONLHHQHRUQ 3DHQWLFH

7KH PPLWWHH UHFRPPHQGV WR

           R   I   H